MMM MMM MMM MMM	AAAAAAA AAAAAAA AAAAAAA		
MMMMMM MMMMMM	AAA	111	LLL
ммммм мммммм	AAA AAA	111	III
ммммм мммммм	AAA AAA	111	LLL
MMM MMM MMM	AAA AAA	111	LLL
MMM MMM MMM	AAA AAA	111	LLL
MMM MMM MMM	AAA AAA	111	LLL
MMM MMM	AAA AAA	111	LLL
MMM MMM	AAA AAA	111	LLL
MMM MMM	AAA AAA	111	LLL
MMM MMM	AAAAAAAAAAAA	111	LLL
MMM MMM	AAAAAAAAAAAA	111	LLL
MMM MMM	AAAAAAAAAAA	111	LLL
MMM MMM	AAA AAA	111	LLL
MMM MMM	AAA AAA	111	LLL
MMM MMM	AAA AAA	III	LLL
MMM MMM	AAA AAA	111111111	LLLLLLLLLLLLLLL
MMM MMM	AAA AAA	111111111	LLLLLLLLLLLLLLL
MMM MMM	AAA AAA	IIIIIIIII	LLLLLLLLLLLLLLL

S) MA MA MA MA

M/ M/ M/ M/ M/ M/

MARKET PRESERVED

2222222 22 22 22 22 22 22 22 22 22 22 2	MM MM MMM MMM MMMM MMM MM MM MM MM MM MM	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	\$
		\$\$\$\$\$\$\$\$\$ \$	
		\$\$ \$\$\$\$\$\$ \$\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	

0002 0003

0008

0009

10

1 .

1.

O MODULE MAILSCMDS(%TITLE 'VAX/VMS PERSONAL MAIL UTILITY COMMANDS'

1 BEGIN
1

COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. ALL RIGHTS RESERVED.

THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY TRANSFERRED.

THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT CORPORATION.

DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.

FACILITY: VAX/VMS MAIL UTILITY

ABSTRACT: Interactive command processing.

ENVIRONMENT: NATIVE/USER MODE

AUTHOR: Benn Schreiber, CREATION DATE: 22-Dec-1982

MODIFIED BY:

V03-015 ROP0028 Robert Posniak 23-JUL-1984 Make sure do not point past the end of the current folder with the DELETE command. Check and report error status after deleting message.

V03-014 BLS0272 Benn Schreiber 18-FEB-1984
Disable ctrl/c handler around help. Use LIB\$FIND_IMAGE_SYMBOL rather than UTIL\$ version.

V03-013 BLS0263 Benn Schreiber 22-Jan-1984
Don't allow SPAWN if captive user. Implement COMPRESS
command to convert mail file.

V03-012 BLS0255 Benn Schreiber 28-Dec-1983 Convert byte flags to a flags longword. /NEW implies the default mail file. Make /EDIT work on sequential

MAILSCMDS VO4-000	VAX/VMS PERSON	AL MAIL UTILITY COMMANDS	D 5 16-Sep-1984 00:47:25 14-Sep-1984 12:42:16	VAX-11 Bliss-32 V4.0-742 Page 2 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;1 (1)
: 58 : 59	0058 1 ! 0059 1 !	files. Make first files. Spawn and	t, last, search work on sequent attach do a purgws.	ntial
58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73	0058 1 ! 0059 1 ! 0060 1 ! 0061 1 ! 0062 1 ! 0063 1 ! 0064 1 ! 0065 1 !	V03-011 BLS0246 Add defaults of 'EDIT qualifier to and READ commands	enn Schreiber 28-Nover TODAY' to /BEFORE and /SINCE. D BACK, CURRENT, FIRST, NEXT, Add /CONFIRM to MOVE, FILE	-1983 Add LAST, COPY.
66 67 68	0066 1 0067 1 0068 1	V03-010 BLS0235 Fix defaulting of Clear garbage bits	enn Schreiber 23-Aug folder selection if file alr s in return status passed as	-1983 eady open. bit flag.
70 71 72 73	0070 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V03-009 BLS0227 Add routine to cle method of deleting	enn Schreiber 29-Jung ear dir_flag and dir_mode. Co g messages with MOVE,FILE com	-1983 orrect mands.
74 75 76 77	0074 1 0075 1	V03-008 BLS0226 Be Make DIR/START=999	enn Schreiber 27-Jun 9 give a full screen listing	-1983
77	0076 1 0077 1 0078 1	V03-007 BLS0225 Be Make SEARCH comman	enn Schreiber 17-June nd open file and select if no	-1983 t already done.
80	0080 1 0081 1	V03-006 BLS0222 Be Disable CTRL/C as	enn Schreiber 15-Maye t around spawning/attaching to	-1983 o subprocess
83	0082 1 0083 1 0084 1	V03-005 BLS0221 BE Fix SPAWN/PROCESS	enn Schreiber 5-May	-1983
86 87 88 88	0086 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V03-004 BLS0220 Be Interlock with PUI messages.	enn Schreiber 30-Aproces. PURGE/RECLAIM to prevent	-1983 extaneous
90	0090 1 !	V03-003 BLS0217 Be	enn Schreiber 14-Apr	-1983
78 79 80 81 82 83 84 85 86 87 88 89 91 92 93 94 95 96	0092 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Add DELETE/ALL com	enn Schreiber mmand. Cause FIRST and LAST of d read default messages if no	commands to

```
F 5
16-Sep-1984 00:47:25 VAX-11 Bliss-32 V4.0-742 P3
14-Sep-1984 12:42:16 DISK$VMSMASTER:[MAIL.SRC]CMDS.B32;1
MAILSCMDS
VO4-000
                                                                         VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                                                            LIB$FIND_IMAGE_SYMBOL;
            ! Load image, find symbol value
                                                                                                                                             MAIL$GL FLAGS: $BBLOCK,
MAIL$B MSGTRAN: BYTE,
MAIL$L OUTLINES,
MAIL$L SYSMAIBUF: REF $BBLOCK,
MAIL$L MSG NUM: LONG,
MAIL$L MSG RADR:LONG,
MAIL$L MSG RSIZ: WORD,
MAIL$L MSG STS: LONG,
MAIL$L MSG STS: LONG,
MAIL$L MSG STS: LONG,
MAIL$L MSG STS: LONG,
MAIL$Q WASTEDESC: $BBLOCK,
MAIL$Q WASTEDESC: $BBLOCK,
MAIL$Q MSGTYPE: $BBLOCK,
MAIL$Q MSGTYPE: $BBLOCK,
MAIL$Q TSGAME: $BBLOCK,
MAIL$Q MSGTYPE: $BBLOCK,
MAIL$Q TSGAME: $BBLOCK,
MAIL$Q MSGTYPE: $BBLOCK,
MAIL$Q TSGAME: $BBLOCK,
MAIL$L NMSG,
MAIL$L NMSG.
MAIL$L NMSG: REF $BBLOCK,
MAIL$L NMSG: REF REF REF REF REF 
                                                                                                            EXTERNAL
                                                                                                    1 GLOBAL
                                                                                                                                                  MAIL$A_OUTPUT_HELP:
                                                                                                                                                                                                                                                                                                                                     ! Address of LBR$OUTPUT_HELP
                                                                                                    1 OWN
                                                                                                                                                 SEARCH_STRING_BUFF: $BBLOCK[128],
DIR_FLAG: BYTE,
                                                                                                                                                                                                                                                                                                                                         ! Current search string buffer ! DIRECTORY last command flag
                                                                                                                                                                                                                                                                                                                                        DIRECTORY last command flag
and there is more DIR to go
DIR/FULL last command
1=DIRECTORY, 0=READ
Used to parse selection stuff
ditto
ditto
                                                                                                                                             DIRFULL_FLAG: BYTE,
DIR MODE: BYTE,
SELECT_DATA: VECTOR[5,LONG],
SELECT_FROM: DYN_DESC_DECL,
SELECT_REPLIED: LONG,
DYN_DESC: DYN_DESC_DECL,
DYN_DESC: DYN_DESC_DECL,
DYN_DESC: DYN_DESC_DECL,
COMMAND_BESC: DYN_DESC_DECL,
SEARCH_STRING: $BBLOCK[8]
PRESET([DSC$A_POINTER] = SEARCH_STRING_BUFF);
                                                                                                                                SELECT_FLAGS = SELECT_DATA[0] : $BBLOCK; ! Message selection flags
                                                                                                                     Declare static strings for qualifier names
                                                                                                    1 SD(
                                                                                                                            BEFORE'
                                                              P 0351
P 0352
P 0353
P 0354
P 0355
P 0356
                                                                                                                                 'COPIES'
                                                                                                                                DELNUM'
                                                                                                                             HEADER',
                                                                                                                                'FILE'.
```

```
MAILSCMDS
VO4-000
                   VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                                                                           16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                                                                                                        VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]CMDS.B32;1
   GLOBAL ROUTINE MAILSOPEN_IF =
                              FUNCTIONAL DESCRIPTION:
                              Open the default mail file if no mail file is open
                              INPUTS:
                                     None
                              IMPLICIT INPUTS:
                                     MAIF_V_FILOPN = 0 if no file open, 1 if file open
                            BEGIN
                            LOCAL
                                 DESC : VECTOR[2,LONG];
                            IF .MAIL$GL_FLAGS[MAIF_V_FILOPN]
THEN RETURN TRUE:
                            DESC[0] = DESC[1] = 0:
                            RETURN MAILSOPEN_FILE (DESC)
                            END:
                                                                                       .TITLE MAILSCMDS VAX/VMS PERSONAL MAIL UTILITY COMMAND
                                                                                       .IDENT \V04-000\
                                                                                       .PSECT $CODE$, NOWRT, 2
                                                                      00000 P.AAB:
                                                                                       .ASCII
                                                                                                \ALL\
                                                                                       .BLKB
                                                                      00004 P.AAA:
                                                           00000003
                                                                                       .LONG
                                                           00000000
                                                                                       .ADDRESS P. AAB
                                              52 4F
                                                                             P.AAD:
                                                                                       .ASCII
                                                        46
                                                                                                \BEFORE\
                                                                                       .BLKB
                                                          000000006
00000000000000
                                                                      00014
00018
0001C
                                                                             P.AAC:
                                                                                       .LONG
                                                                                       .ADDRESS P.AAD
                                                                             P.AAF:
                                          52 49
                                                                                       .ASCII \CONFIRM\
                                                                                       .BLKB
                                                          00000007
000000000
4F 43
                                                                      00024
00028
00020
                                                                             P.AAE:
                                                                                       . LONG
                                                                                       .ADDRESS P.AAF
                                          53 45 49 50
                                                                             P.AAH:
                                                                                       .ASCII \COPIES\
                                                                                       .BLKB
                                                          000000006
                                                                      00034
00038
0003C
                                                                             P.AAG:
                                                                                       .LONG
                                                                                       .ADDRESS P. AAH
                                          40 55 4E 4C
                                                                             P.AAJ:
                                                                                       .ASCII
                                                                                                \DELNUM\
                                                                      00042
00044
00048
00040
                                                                                       .BLKB
                                                           000000000
                                                                             P.AAI:
                                                                                       . LONG
                                                                                       .ADDRESS P.AAJ
                                          52 45 44 41
                                                                             P.AAL:
                                                                                                \HEADER\
                                                                                       .ASCII
                                                                                        .BLKB
                                                           00000006
                                                                       00054 P.AAK:
                                                                                       .LONG
```

.

MAILSCMDS VO4-000		VAX	/VMS	PEI	RSONA	L MA	IL (ITILI	TY (OMMANDS	16-Sep-1984 00:47:25 VAX-11 Bliss-32 V4.0-742 Page 14-Sep-1984 12:42:16 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;1
								54	55	50 4E 49	00058 .ADDRESS P.AAL .ASCII VINPUT
										00000005 40 44 46	00061 .BLKB 3 00064 P.AAM: .LONG 5 00068 .ADDRESS P.AAN 0006C P.AAP: .ASCII \FDL\
											0006C P.AAP: .ASCII \FDL\ 0006F .BLKB 1 00070 P.AAO: .LONG 3
									45	00000003 000000000 40 49 46	00074 .ADDRESS P.AAP 00078 P.AAR: .ASCII \FILE\
		45	40	41	4E	5F	52	45	44	00000004 00000000 40 4F 46	0006F .BLKB 1 00070 P.AAO: LONG 3 00074 .ADDRESS P.AAP 00078 P.AAR: .ASCII \FILE\ 0007C P.AAQ: LONG 4 00080 .ADDRESS P.AAR 00084 P.AAT: .ASCII \FOLDER_NAME\
										00000000	0008F .BLKB 1 00090 P.AAS: .LONG 11 00094 .ADDRESS P.AAT
							52	45	44	4C 4F 46	00098 P.AAV: ASCII \FOLDER\ 0009E BLKB 2
									40	00000006 00000000 4F 52 46	000A4 .ADDRESS P.AAV 000A8 P.AAX: .ASCII \FROM\
									10	4F 52 46 000000004 000000000 4C 55 46	000AC P.AAW: LONG 4 000BO .ADDRESS P.AAX
									40	000000000 000000000 47 4F 4C	000B4 P.AAZ: .ASCII \FULL\ 000B8 P.AAY: .LONG 4 000BC .ADDRESS P.AAZ
											000CO P.ABB: .ASCII \LOG\
53 4	45	4D	41	4E	5F	40	41	43	49	00000003 000000000 47 4F 4C	OOOCC P.ABD: .ASCII \LOGICAL NAMES\
										00000000	000D9 .BLKB 3 000DC P.ABC: .LONG 13 000E0 .ADDRESS P.ABD
							59	46	49	54 4F 4E	000E4 P.ABF: ASCII \NOTIFY\
							54	55	50	00000006 00000000 54 55 4F	000EC P.ABE: LONG 6 000F0 .ADDRESS P.ABF 000F4 P.ABH: ASCII \OUTPUT\
											OOOFC P.ABG: LONG 6
										00000006 00000000° 31 50	00104 P.ABJ: .ASCII \P1\
							54	4E	45	00000000° 00000000° 52 41 50	00106
							,,	46	7,		00116 .BLKB 2 00118 P.ABK: .LONG 6
								54	4E	00000006 00000000 49 52 50	0011C .ADDRESS P.ABL 00120 P.ABN: .ASCII \PRINT\ 00125 .BLKB 3
							67	15	/2	00000005 000000000 4F 52 50	00128 P.ABM: LONG 5 0012C .ADDRESS P.ABN :
						53	22	45	43	00000007	00130 P.ABP: .ASCII \PROCESS\ 00137 .BLKB 1 00138 P.ABO: .LONG 7

VAX/VMS	PER	SONA	L MA	AIL U	ITILI	TY (OMMANDS	J 5 16-Sep-1984 00:47:25 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:42:16 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;1	Page	(3)
					45	55	45 55 51	0013C .ADDRESS P.ABP 00140 P.ABR: .ASCII \QUEUE\	:	
			40	49	41	40	00000005 000000000 43 45 52	00145		
53	43	49	54	53	49	54	000000007 0000000000 41 54 53	00160 P.ABV: .ASCII \STATISTICS\		
			53	40	4F	42	00000000A 000000000 4D 59 53	0016A .BLKB 2 0016C P.ABU: .LONG 10 00170 .ADDRESS P.ABV 00174 P.ABX: .ASCII \SYMBOLS\		
					59	41	00000007 000000000 44 4F 54	0017B BLKB 1		
							00000005	00189 .BLKB 3 0018C P.ABY: .LONG 5 00190 .ADDRESS P.ABZ	:	
					46	40	00000005 00000000		:	
		53	59	45	48	54	000000004 000000000 40 45 48	001A4 P.ACD: .ASCII \EDIT\ 001A8 P.ACC: .LONG 4 001AC .ADDRESS P.ACD 001BO P.ACF: .ASCII \HELPKEYS\		
							00000008 00000000 57 45 4E	001B8 P.ACE: .LONG 8 001BC .ADDRESS P.ACF 001C0 P.ACH: .ASCII \NEW\ 001C3 .BLKB 1		
					31	44	00000003 000000000 41 45 52	001C4 P.ACG: .LONG 3 001C8 .ADDRESS P.ACH 001CC P.ACJ: .ASCII \READ1\	:	
					32	44	00000005 000000000 41 45 52	001DC P.ACL: .ASCII \READ2\		
			31	48	43	52	00000005 000000000 41 45 53	OOIEC P.ACN: .ASCII \SEARCH1\		
					31	44	00000007 000000000 4E 45 53	001F3 .BLKB 1 001F4 P.ACM: .LONG 7 001F8 .ADDRESS P.ACN		
							00000005	00201 BLKB 3		
					45	43	00000005	00211 .BLKB 3 00214 P.ACQ: .LONG 5 00218 .ADDRESS P.ACR	:	
					54	52	41 54 53	0021C P.ACT: .ASCII \START\ 00221 .BLKB 3	:	

MAILSCMDS VO4-000

DACOO

000B2 000B4

000BA

02

0E

0E

00# 000B0 DYN_DESC_2:

00# 000B8 DYN_DESC

[5]0

14. 2

0[2]

BYTE

BYTE

BYTE.

VO

```
16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                                                                                                                                          VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]CMDS.B32;1
MAILSCHOS
                         VAX/VMS PERSONAL MAIL UTILITY COMMANDS
V04-000
                                                                                                                                                                                                           (3)
                                                                                       000 000C0 COMMAND_DESC:
BYTE
0E 000C2 .BYTE
                                                                                                                                0[2]
                                                                                              000C2
000C4
                                                                                 02
                                                                                             00006 SEARCH_STRING:
                                                                                       00#
                                                                                                                    .ADDRESS SEARCH_STRING_BUFF
                                                                              00000000
                                                                                              000CC
                                                                                                                    .PSECT $GLOBAL$.NOEXE.2
                                                                                              00000 MAIL$A_OUTPUT_HELP::
                                                                                                       SELECT_FLAGS=
SD_ALL=
SD_BEFORE=
                                                                                                                                       SELECT_DATA
                                                                                                                                       P.AAA
                                                                                                                                       P.AAC
                                                                                                       SD_CONFIRM=
                                                                                                                                       P.AAE
                                                                                                                                       P.AAG
                                                                                                        SD_COPIES=
                                                                                                       SO_DELNUM=
                                                                                                                                       P.AAI
                                                                                                        SD_HEADER=
                                                                                                                                       P. AAK
                                                                                                        SD_INPUT=
                                                                                                                                       P.AAM
                                                                                                       SD_FDL=
                                                                                                                                       P.AAO
                                                                                                       SD FILE=
                                                                                                                                       P.AAQ
                                                                                                        SD_FOLDER_NAME=
                                                                                                                                       P.AAS
                                                                                                                                       P.AAU
                                                                                                        SD_FOLDER=
                                                                                                       SD FROM=
SD FULL=
                                                                                                                                       P.AAW
                                                                                                                                       P.AAY
                                                                                                       SD_LOG=
                                                                                                                                       P. ABA
                                                                                                       SD_LOGICAL_NAMES=
SD_NOTIFY=
                                                                                                                                       P.ABC
                                                                                                                                       P.ABE
                                                                                                       SD_OUTPUT=
SD_P1=
SD_PARENT=
                                                                                                                                       P. ABG
                                                                                                                                       P.ABI
                                                                                                                                       P. ABK
                                                                                                       SD_PRINT=
SD_PROCESS=
                                                                                                                                       P. ABM
                                                                                                                                       P.ABO
                                                                                                       SD_QUEUE=
SD_RECLAIM=
                                                                                                                                       P.ABQ
                                                                                                      SD_RECLAIM=
SD_STATISTICS=
SD_SYMBOLS=
SD_TODAY=
SD_REPLF=
SD_EDIT=
SD_HELPKEYS=
SD_NEW=
SD_READ1=
SD_READ2=
SD_SEARCH1=
SD_SEND1=
SD_SINCE=
SD_SINCE=
SD_SINCE=
SD_START=
SD_SUBJECT=
SD_SETF1=
SD_SETF1=
SD_SETF1=
SD_SETF1=
SD_TOLIST=
                                                                                                                                       P.ABS
                                                                                                                                       P.ABU
                                                                                                                                       P. ABW
                                                                                                                                       P. ABY
                                                                                                                                       P.ACA
                                                                                                                                       P.ACC
                                                                                                                                       P.ACE
                                                                                                                                       P.ACG
                                                                                                                                       P.ACI
                                                                                                                                       P.ACK
                                                                                                                                       P.ACM
                                                                                                                                       P.ACO
                                                                                                                                       P.ACQ
                                                                                                                                       P.ACS
                                                                                                                                       P.ACU
                                                                                                                                       P.ACW
                                                                                                                                      P. ACY
                                                                                                                                      P. ADA
                                                                                                                                       P.ADC
                                                                                                       SD_TOLIST=
                                                                                                                                      P.ADE
```

VC

```
16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                                                                                                                                                 VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRCJCMDS.B32;1
                                                                                                       P.ACY
P.ADA

CLISGET VALUE, CLISPRESENT
LIBSATTACH, LIBSCYT DTB
LIBSCYT TIME, LIBSSPAWN
MAILSCUSE FILE
MAILSCOMPRESS, MAILSCOPY_MSGS
MAILSCOMPRESS, MAILSCOPY_MSGS
MAILSDELETE_I_MSG
MAILSDELETE_I_MSG
MAILSDELETE_MSG
MAILSDIRECTORY, MAILSDISABLE_CTRLC
MAILSEDIT, MAILSEDIT_READ_MSG
MAILSEDIT, MAILSEDIT_READ_MSG
MAILSEDIT, MSG
MAILSFIND_I_MSG
MAILSFIND_I_MSG
MAILSFIND_I_MSG
MAILSFIND_I_MSG
MAILSFIND_I_MSG
MAILSINFO_I_MSG
MAILSPUT_DUTPUT
MAILSPUT_DUTPUT
MAILSPUT_DUTPUT
MAILSPUT_DUTPUT
MAILSREWIND_I_MSG
MAILSSELECT_MSGS
MAILSTEIT_D_UOTES
MAILSTEIT_D_UO
          MAIL$SD_SETF1==
MAIL$SD_SETN1==
.EXTRN
.EXTRN
                                                                EXTRN
                                                               EXTRN
                                                                EXTRN
                                                                EXTRN
                                                                EXTRN
                                                                EXTRN
                                                                EXTRN
                                                                EXTRN
                                                                EXTRN
                                                               .EXTRN
                                                                .EXTRN
                                                                EXTRN
                                                                EXTRN
                                                                .EXTRN
                                                               .EXTRN
                                                                EXTRN
                                                                .EXTRN
                                                                EXTRN
                                                               .EXTRN
                                                               .EXTRN
                                                                .EXTRN
                                                               .EXTRN
                                                                .EXTRN
                                                                .EXTRN
                                                                .EXTRN
                                                                EXTRN
                                                               EXTRN
                                                               .EXTRN
                                                               .EXTRN
                                                               .EXTRN
                                                               .EXTRN
                                                               .EXTRN
                                                               .EXTRN
                                                             .EXTRN
                                                             .EXTRN
                                                              .EXTRN
                                                             .EXTRN
                                                             .EXTRN
                                                             .EXTRN
                                                             .EXTRN
                                                                                                           MAIL$L_CURMSG, MAIL$L_MSGTBL
                                                             .PSECT $CODE$, NOWRT, 2
```

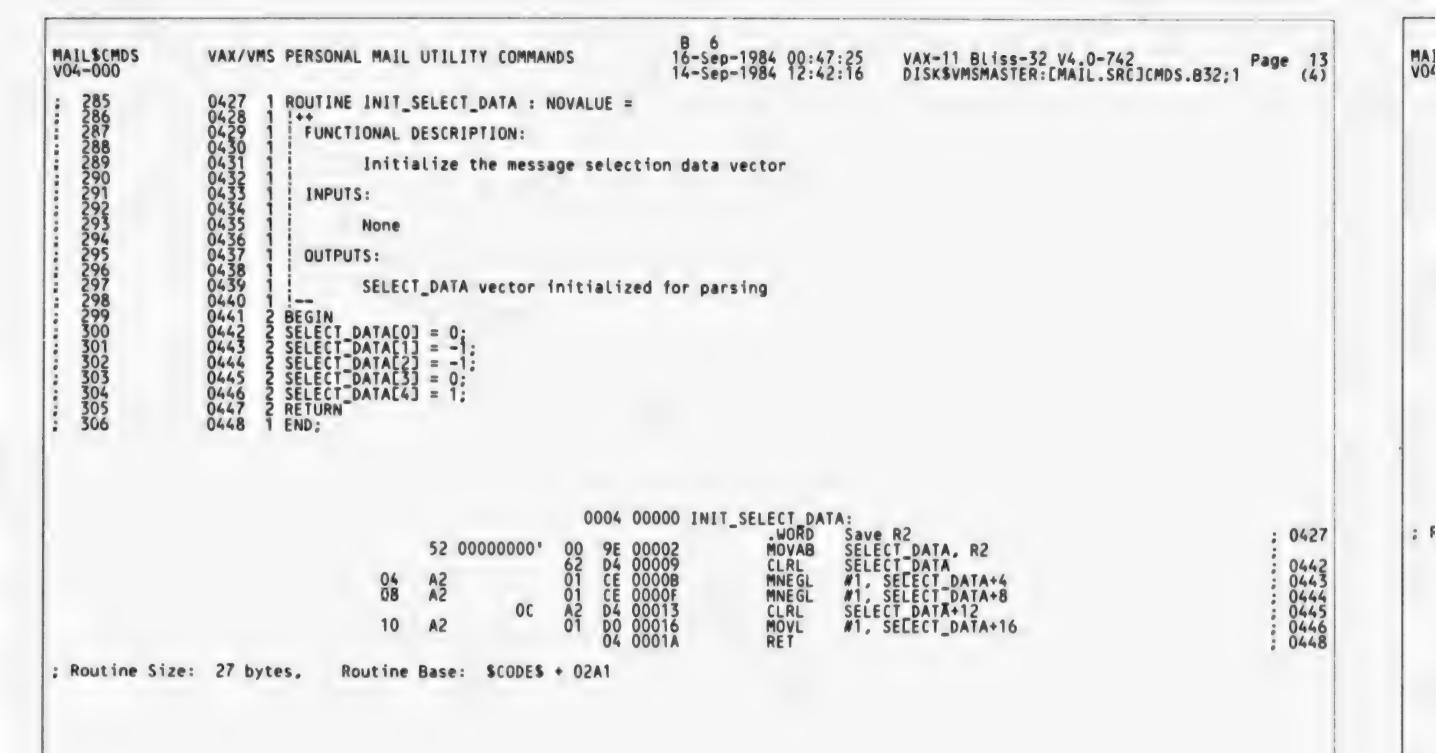
04	00000000G	5E 00 50	0000 08 C2 03 E1 01 D0	00000 00002 00005 0000D	ENTRY SUBL2 BBC MOVL RET	MAIL\$OPEN_IF, Save nothing #8, SP #3, MAIL\$GL_FLAGS+1, 1\$ #1, RO	0401 0421 0422
	000000006	00	6E 7C 5E DD 01 FB 04	00011 15: 00013 00015 0001C	CLRQ PUSHL CALLS RET	DESC SP #1, MAILSOPEN_FILE	0424 0425 0426

MAILSCHDS V04-000

VAX/VMS PERSONAL MAIL UTILITY COMMANDS

N 5 16-Sep-1984 00:47:25 VAX-11 Bliss-32 V4.0-742 Page 12 14-Sep-1984 12:42:16 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;1 (3)

; Routine Size: 29 bytes. Routine Base: \$CODE\$ + 0284



```
MAILSCMDS
VO4-000
                                                                                                                                        16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                                                                                                                                                                                          VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]CMDS.B32;1
                                  VAX/VMS PERSONAL MAIL UTILITY COMMANDS
      308
309
310
                                 0449
0451
0453
0453
0455
0456
0457
0461
0463
                                                   ROUTINE PARSE_SELECTION_QUALS =
                                                   ! FUNCTIONAL DESCRIPTION:
      31123
3133
3145
3167
319
                                                                    Parse the message selection qualifiers and fill in SELECT DATA
                                                                    vector.
                                                       INPUTS:
                                                                   SELECT_DATA vector initialized for parsing
                                                      OUTPUTS:
      $20
$21
$22
$23
$23
$25
$26
$27
$28
$329
$329
                                                                    SELECT_DATA vector filled in according to selection criteria in command
                                 0464
0465
0466
0467
0468
                                                  BEGIN
                                                           QUAL_FLAGS = SELECT_DATA[0] : $BBLOCK:
                                 0468
0469
0470
0471
0472
0473
0474
0475
                                                      Parse the /BEFORE qualifier
                                                  QUAL_FLAGS[QUAL_BEFORE] = CLISPRESENT(SD_BEFORE);
IF .QUAL_FLAGS[QUAL_BEFORE]
THEN_BEGIN_
      331
332
333
334
335
                                                          CLISGET_VALUE(SD_BEFORE,DYN_DESC);
IF .DYN_DESC[DSC$W_LENGTH] EQL 0
THEN STR$COPY DX(DYN_DESC,SD_TODAY);
IF_ERR(LIB$CVT_TIME(DYN_DESC,SELECT_DATA[1]);
RETURN SIGNAL(MAIL$_INVQUAVAL,2,DYN_DESC,SD_BEFORE));
IF .SELECT_DATA[2] EQL 0
OR (.SELECT_DATA[2] AND %x'FFF80000') EQL 0
THEN RETURN SIGNAL(MAIL$_INVQUAVAL,2,DYN_DESC,SD_BEFORE);
      336
337
                                 0478
0479
      338
      339
                                 0480
      340
                                 0481
                                 0482
0483
0484
0485
0486
0487
0488
      341
342
343
                                                           END:
                                                      Parse the /SINCE qualifier
      344
345
                                                  QUAL_FLAGS[QUAL_SINCE] = CLISPRESENT(SD_SINCE);
IF .QUAL_FLAGS[QUAL_SINCE]
THEN BEGIN
      346
347
                                                          CLISGET_VALUE(SD_SINCE.DYN_DESC);
IF .DYN_DESC(DSCSW_LENGTH) EQL 0
THEN STRSCOPY DX(DYN_DESC,SD_TODAY);
IF_ERR(LIBSCVT_TIME(DYN_DESC,SELECT_DATA[3]);
RETURN SIGNAL(MAILS_INVQUAVAL,2,DYN_DESC,SD_SINCE));
IF .SELECT_DATA[4] EQL 0
OR (.SELECT_DATA[4] AND %X'FFF80000') EQL 0
THEN RETURN SIGNAL(MAILS_INVQUAVAL,2,DYN_DESC,SD_SINCE);
      348
349
                                 0490
      350
                                 0491
                                 0492
                                 0494
      354
                                 0496
0497
0498
      355
      356
357
                                                  !QUAL_FLAGS[QUAL_REW] = CLISGET_VALUE(SD_FROM, SELECT_FROM);
QUAL_FLAGS[QUAL_REW] = CLISPRESENT(SD_NEW);
      358
359
                                  0499
                                  0500
                                                   ! QUAL_REPLIED
       360
      361
362
                                                   RETURN TRUE
                                                  END:
```

QUAL_FLAGS=

SELECT_DATA

				00FC (00000	PARSE_SELECTION	QUALS:	. 0//0
			57 000000000 56 000000000 55 000000000 54 00000000 53 FD36 52 00000000	00 9E 0 00 9E 0 00 9E 0 00 9E 0 00 9E 0 00 9E 0	00002 00009 00010 00017 0001E 00023	.WORD MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB PUSHL CALLS	Save R2,R3,R4,R5,R6,R7 LIBSCVT TIME, R7 STR\$COPY DX, R6 CLISGET VALUE, R5 CLISPRESENT, R4 SD BEFORE, R3 DYN_DESC, R2 R3	0449
DC	A2	01	64 00 32 DC	50 FO (0002F	1424	RO, WO, WI, QUAL_FLAGS QUAL_FLAGS, 3\$	0471
			65	A2 E9 (52 DD (53 DD (62 B5 (62 B5 (62 B5 (63 9F (00035 00039 0003B 0003D 00040 00042 00048 00048 00048 00055 00055	PUSHL CALLS TSTW	R2 R3 W2, CLISGET_VALUE DYN_DESC	0474
			0178	C3 9F (00044	BNEQ PUSHAB	SD_TODAY R2	0476
			66 E0	52 DD (02 FB (A2 9F (52 DD (0004A 0004D 00050	PUSHL CALLS 1\$: PUSHAB PUSHL	#2. STR\$COPY_DX SELECT_DATA+4 R2	0478
			67 0F 50 E4	C3 9F (C) 52 DD (C) 62 FB (C) 62 FB (C) 62 FB (C) 62 FB (C) 63 FB (C) 64 FB (C) 65 FB	00052 00055 00058	PUSHL CALLS BLBC MOVL BEQL	#2, LIB\$CVT_TIME STATUS, 2\$ SELECT_DATA+8, RO	0479
		FFF80000	8F	50 p3 0	0005E	BITL	2\$ RO, W-524288	0480
				53 DD 0	00067	2\$: BNEQ PUSHL BRB	3\$ R3	0481
DC	A2	01 46 DC	0200 64 01 A2	01 FB 0	00069 0006B 0006F 00072	3\$: PUSHAB CALLS INSV	SD_SINCE #1, CLISPRESENT RO, #1, #1, QUAL_FLAGS	0486
		46 00	65 0200	01 E1 0 52 DD 0 03 9F 0 02 FB 0	0007D 0007F 00083	BBC PUSHL PUSHAB CALLS	W1, QUAL_FLAGS, 7\$ R2 SD_SINCE W2, CLISGET_VALUE	0487 0489
				62 B5 0	00086 00088	TSTW	DYN_DESC 4\$	0490
			0178	C3 9F 0	A8000	PUSHAB PUSHL	SD_TODAY	0491
			66 E8	09 12 0 09 12 0 52 DD 0 02 FB 0 A2 9F 0	00090 00093 00096	48: CALLS PUSHAB PUSHL	#2, STR\$COPY_DX SELECT_DATA+T2 R2	0493
			67 0F 50 EC	09 12 0 09 12 0 02 9F 0 02 FB 0 02 FB 0 02 FB 0 02 FB 0 03 0 04 0 09 13 0	00098 00098 0009E	CALLS BLBC MOVL	DYN_DESC SD_TODAY R2 #2, STR\$COPY_DX SELECT_DATA+T2 R2 #2, LIB\$CVT_TIME STATUS, 5\$ SELECT_DATA+16, R0 5\$	0494
		FFF80000	8F	50 03 0	000A2	BEGL	5\$ RO, #-524288 7\$	0495
			0200	50 D3 0 16 12 0 C3 9F 0 52 DD 0	00086 00088 0008E 00090 00093 00096 00098 00098 00098 000A4 000AD	TSTW BNEQ PUSHAB PUSHL CALLS 48: PUSHAB PUSHL CALLS BLBC MOVL BEQL BITL BNEQ PUSHAB PUSHAB PUSHAB PUSHAB	SD_SINCE R2 W2	0496

MA! VO4

MAILSCMDS VO4-000	VAX/VMS PERSONAL MAIL	UTILITY COMMANDS	E 6 16-Sep-1984 00:47:25 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:42:16 DISK\$VMSMASTER:[MAIL.SRCJCMDS.B32;1	Page 16 (5)
DC A2	00000000	00 007E132A 81 00 01B0 C: 04 04 56 0	F DD 000B5 PUSHL #8262442 4 FB 000BB CALLS #4, LIB\$SIGNAL 04 000C2 RET 3 9F 000C3 7\$: PUSHAB SD_NEW 1 FB 000C7 CALLS #1, CLI\$PRESENT	0499 0502 0503
; Routine Size:	212 bytes, Routin	e Base: \$CODE\$ +	O2BC	

MAILSCMDS VO4-000	VAX/VMS PERSONAL MAIL UTILITY COMMANDS 16-Sep-1984 00:47:25 14-Sep-1984 12:42:16 VAX-11 Bliss-32 V4.0-742 Page 14-Sep-1984 12:42:16 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;1	e 17 (6)
364 365 366 367 368 370 377 377 377 377 378 379 381 382 383 384 385 388 388 388 388 388 388 388 388 388	OSO6 1	
	0000 00000 READ_MESSAGE: .WORD Save nothing 08 04 AC E9 00002 BLBC EDIT_FLAG. T\$ 00000000G 00 00 FB 00006 CALLS WO, MAIL\$EDIT_READ_MSG 04 0000D RET 00000000G 00 06 90 0000E 1\$: MOVB W6, MAIL\$B_MSGTRAN 00000000G 00 07 FB 00015 CALLS WO, MAIL\$READ 04 0001C RET	0504 0521 0523 0525 0526 0527 0529

Routine Base: \$CODE\$ + 0390

; Routine Size: 29 bytes,

MA'

MAILSCMDS VO4-000	VAX/VMS PERSONAL MAIL	UTILITY COMMAN	IDS	G 6 16-Sep-19 14-Sep-19	784 00:47 784 12:42	2:25 VAX-11 B	liss-32 V4.0-742 MASTER:[MAIL.SRC]CMDS.	.B32;1 Page (18
391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406	0531 ++	FOLDER (FOLDER DESCRIPTION: the folder nam SC : REF \$BBLOCK SCEDSC\$W LENGTH RN SIGNAC (MAILS RN TRUE	ne, signal a	eny errors.					
	000000006	27 04 04 007E1112	BC B1 000 13 1B 000 AC DD 000 01 DD 000 8F DD 000 03 FB 000 04 000	006 008 00B 00D 013 01A	FOLDER: WORD CMPW BLEQU PUSHL PUSHL PUSHL CALLS RET MOVL RET	Save nothing afolder_desc, 1\$ FOLDER_DESC, 11 #8261906 #3, LIB\$SIGNAL		05	530 542 543 544 545

; Routine Size: 31 bytes, Routine Base: SCODES + O3AD ; F

MAI VO4

```
H 6
MAILSCMDS
VO4-000
                                                                                           VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                                                                                                                                                                                                                                                                                                                                                                            16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRCJCMDS.B32;1
                408

409

41123

4115

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4116

4
                                                                                       ROUTINE SELECT_DEFAULT =
                                                                                                                                                   FUNCTIONAL DESCRIPTION:
                                                                                                                                                                                      Open the mail file (if not open) and select the default messages
                                                                                                                                        BEGIN
                                                                                                                                       LOCAL
                                                                                                                                                              FOLDER_DESC : VECTOR[2,LONG];
                                                                                                                                      FOLDER_DESC[0] = FOLDER_DESC[1] = 0:
IF NOT .MAILSGL FLAGS[MAIF V FILOPN]
OR .MAILSQ_TURFOLDER[DSCSW_LENGTH] EQL 0
                                                                                                                                      THEN BEGIN
                                                                                                                                                             IF_ERR(MAIL$OPEN_IF();
RETURN .STATUS);
IF NOT .MAIL$GL_FLAGS[MAIF_v_ISAM] !All done if not isam file
THEN RETURN TRUE;
                                                                                          0564
                                                                                                                                                             INIT_SELECT_DATA();
IF_ERR(MAIL$SELECT_MSGS(FOLDER_DESC, SELECT_DATA);,
RETURN .STATUS);
                                                                                       0565
0566
0567
                                                                                          0568
                                                                                                                                                              END:
                                                                                          0569
                                                                                          0570
                                                                                                                                         RETURN TRUE
                                                                                                                                      END:
```

		0000 00000	SELECT_DEFAULT:		0014
08 00000000G	00 0000000	7E 7C 00007 03 E1 00004 06 00 B5 00001	.WORD CLRQ BBC TSTW BNEQ	Save nothing FOLDER_DESC #3, MAILSGL_FLAGS+1, 18 MAILSG_CURFOLDER	0546 0557 0558 0559
FE9F	CF	00 FB 0001	18: CALLS	00, MAILSOPEN_IF	0562
FEAD	18 00000000 CF 00000000	00 FB 00023	1\$: CALLS BLBC BLBC CALLS PUSHAB	STATUS, 38 MAILSGL FLAGS, 28 MO, INIT SELECT_DATA SELECT_DATA	0563 0565 0567
000000006	00 03 50	02 FB 00038 50 E9 00038 01 D0 00038 04 00038	PUSHAB CALLS BLBC MOVL 3\$: RET	FOLDER DESC #2. MAILSSELECT_MSGS STATUS, 38 #1, R0	0570 0571

; Routine Size: 63 bytes, Routine Base: \$CODE\$ + 03CC

MAILSCHDS VO4-000	VAX/VMS PERSONA	L MAIL UTILITY COMMANDS	16-Sep-1984 00:4 14-Sep-1984 12:4	7:25 VAX-11 Bliss-32 V4.0-742 2:16 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;1	Page 20
435 436 437 438 439 440 441 442 443 445 445 446 447	05/5 1 :++	ROUTINE MAILSCLR_DIR_FLAG: IONAL DESCRIPTION: This routine clears the floormand was in progress. G = 0: E = 0:			
; Routin e Siz	e: 15 bytes, F	00000000° 00 90 00000000° 00 90 00 00 00 00 00 00 00 00 00 00 00 00 0	0 00000 ENTRY 6 00002 CLRB 6 0000E RET	MAIL\$CLR_DIR_FLAG, Save nothing DIR_FLAG DIR_MODE	0573 0583 0583

; 1

MAVO

```
MA
```

```
6
                                                                                      16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
MAILSCHDS
VO4-000
                                                                                                                      VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]CMDS.832;1
                     VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                     THEN SIGNAL (.MAIL$L_MSG_STS);
RETURN TRUE;
   END:
                             ELSE BEGIN

IF .SELECT_DATA[0] NEQ 0

OR .FOCDER DESC(DSC$W_LENGTH] NEQ 0

THEN RETURN SIGNAL (MAIL$_NOTISAM);

IF .MAIL$L_MSG_STS EQL 0

OR .MAIL$L_MSG_STS EQL MAIL$_NOTREADIN

OR .MSG_NUM NEQ 0
                                     END
                                     THEN BEGIN

IF MAILSFIND_MSG(.MSG_NUM,.NEW_FILE)
                                           THEN
                                                      READ_MESSAGE(.EDIT_FLAG)
                                           ELSE
                                                      IF .MAIL$L_MSG_STS EQL MAIL$_NOMOREMSG
                                                      THEN
                                                                SIGNAL (MAIL$_NOMOREMSG);
                                           RETURN TRUE:
                                           END:
                                        If there aren't any more messages in the message file, start over with
                                        the first message in the file.
                                     IF .MAIL$L_MSG_STS EQL MAIL$_NOMOREMSG
THEN BEGIN
                                           IF MAILSFIND_MSG(1)
THEN
                                                     READ_MESSAGE (.EDIT_FLAG);
                                           RETURN TRUE:
                                           END:
                                     END:
                                   If there are more records in the current message, display them. Otherwise
                                  there is an error.
                                IF .MAIL$L_MSG_STS
                                THEN
                                           MAILSREAD()
                                ELSE
                     0741
0742
0743
                                           SIGNAL (.MAIL$L_MSG_STS);
                                RETURN TRUE
                                END:
```

01

VAX/VMS	PERSONAL	MAIL	UTILITY	COMMANDS
******	1 PHADIME	1100	0146411	PALILIMIAN A

M 6		
16-Sep-1984 14-Sep-1984	00:47:25	DIS
14-366-1304	16.76.10	013

VAX-11 Bliss-32 V4.0-742 Page 24 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;1 (10)	62 RC1CMDS_B32:1 Page 24
--	-----------------------------

						14	4-26b-	1964 12:42	: 10	DISKOVMSMASTER: LMAIL. SRCJCMDS. B32;	(10)
		55 54 56 A5	00000000°	CF 000 000 653 AE	9E 000	2C		MOVAB	READ	MESSAGE, R5	:
	70	5E		ŎČ	C2 000 FB 000 7C 000 D4 000	38		MOVAB SUBL2 CALLS CLRQ CLRL	#12.	T FLAGS, R4 SP MAILSCLR_DIR_FLAG NUM FLAG ER_DESC+4 INIT_SELECT_DATA	
	78	AS		00	C2 000 FB 000 7C 000 D4 000 D4 000	ŞΒ		CALLS	#0 . P	MAILSCLR_DIR_FLAG	0616
				53	p4 000	41		CLRL	FDIT	FLAG	; 0618
			80	AE	04 000	45		CLRL	FOLDE	ER_DESC+4	: 0619
	FF11	C5			FB 000	46		LALLS	#0, 1	INIT_SELECT_DATA	: 0620 : 0621
				6C 03	95 000 13 000	40		TSTB	(AP)		; 0621
				0081	31 000	45		BBU	1 \$		•
			34	A4	9F 000	52	15:	PUSHAB PUSHAB CALLS BLBC PUSHL PUSHL MOVZWL	DYN_	DESC_3 EAD1 CLISGET_VALUE	; 0623
		40	FD61	CF 02 50	9F 000	22		PUSHAB	SD_RE	ADT COST WALLE	
		69 19		50	FB 000 E9 000	50		BIRC	RO.	DE VALUE	
				5E	DD 000	5F		PUSHL	SP		: 0628
		70	38 34	A4 A4	DD 000 DD 000 3C 000 FB 000	61		PUSHL	DYN_D	DESC_3+4	0628 0629 0628
		7E 6A	34	74	FB 000	68		MOVZWL	DYN_I	DESC 3, -(SP)	: 0628
		OA		03 50	E8 000	68		BIBS	RO.	25	
	04 08	OA AE AE	34	A4	E8 000 B0 000 D0 000 9F 000	6E		CALLS BLBS MOVW	DYN_D	DESC_3+4 DESC_3, -(SP) IB\$CVT_DTB DESC_3, FOLDER_DESC DESC_3+4, FOLDER_DESC+4 DESC_2 EAD2 LI\$GET_VALUE	: 0631
	80	AE	34 38 20	A4	DO 000	73	20	MOVL PUSHAB PUSHAB CALLS BLBC PUSHL	DYN	DESC 3+4, FOLDER_DESC+4	0631
			FD4B	A4	9F 000	78	28:	PUSHAB	DYN	DESC_2	0638
		69	1748	CF 02 50 5E	9F 000 FB 000 E9 000 DD 000	7F		CALLS	#2- K	CLISGET VALUE	
		69 1E		50	E9 000	82		BLBC	RO,	3\$	
			70	5E	DD 000	85		PUSHL			: 0640
		75	30 20	A4	DD 000 3C 000	94		PUSHL	DYN	DESC_2+4 DESC_3(SB)	: 0641
		7E 6A OF	20	03	DD 000 3C 000 FB 000	8E		CALLS	#3. L	IBSEVÍ DIB	, 0040
		OF		50	E8 000	91		CALLS BLBS PUSHAB	RO,	DESC 2 - (SP) IBSCVT_DTB	
			20	01	9F 000	94		PUSHAB	DYN_D	DESC_2	: 0642
			007E1112	8F	DD 000 DD 000	99		PUSHL	#1 #8261	1906	•
		68	00121112	8F 03	FB 000	9F		CALLS	#3. L	.1B\$SIGNAL	
			0.1	4.5	DD 000 DD 000 FB 000 04 000 9F 000	ŞA	7.0	RET			
	1D	AS	04	AL	9F 000	77	3\$:	PUSHAB	FOLDE	R DESC	0648
	10	68		50	FB 000 E9 000	AA		BLBC	STATU	IS. 9\$	•
	FF2C	A5 6B C5 63		AE 01 50 00 50 CF	FB 000 E9 000 FB 000 E9 000	AD		BLBC CALLS BLBC PUSHAB	#0, F	R DESC HECK FOLDER JS, 9\$ PARSE SELECTION_QUALS JS, 9\$ JI LISPRESENT DIT FLAG SELECT FLAGS, 4\$ MAILSGE FLAGS+1, 4\$ MAILSCLOSE_FILE	0650
		63	2005	50	FB 000 E9 000 9F 000	BZ		BLBC	STATU	IS, 9\$	
	000000006	00	FCD5	01		-		CALLS	SD_ED	I I CODECENT	0651
	00000000	53		ŠÒ	000	ČÓ		MOVL	RO. E	DIT FLAG	•
0	C	64 A7 00		04	DO 000 E1 000 E0 000 FB 000	<u>C3</u>		BBC	#4. 5	ELECT_FLAGS, 4\$	0652 0653
0	7 000000000	AZ		04	EO 000	C7		BBS	#4. P	MAILSGE FLAGS+1, 48	: 0653
	00000000	00		50	D4 000	20	48:	CALLS	BO . F	WITACTOSE LIFE	0654
			04	AE	B5 000	05	401	CLRL		R_DESC	, 0002
				δŠ	B5 000 13 000	80		BEQL	55		•
A	7	01		20	D6 000 EF 000 CA 000 D4 000 D5 000	AC	48 : 58 :	BEQL INCL EXTZV BICL2 CLRL TSTL	RO . R	MATI SCI SI ACCAS DO	
*	•	01 52		50	CA 000	EŽ	38:	BICLZ	RO	V1, MAIL\$GL_FLAGS+1, R2	0
		-		50	D4 000	E5		CLRL	RO		0663
				64	D			TSTL	SELEC	T_DATA	•
				504400 605 A200 605 A	13 000	17		BEQL	6\$ R0		•
				30	000	LD		THEE	NU		•

MAILSCMDS	VAX/VMS PERSONAL MAIL UTILITY COMMANDS	N 6 16-Sep-1984 00:47:25	VAX-11 Bliss-32 V4.0-742 Page 25	MA
1 V04-000		14-Can-1084 12-42-16	DICKEUMSMASTED FMAIL SPETCHDS DID. 1	1 VO4

				i	4-Sep-	1984 12:42		(10)
FEF4	52 58 08		50 52 50 50 50 67 50 67 50 67	CA 000ED D2 000F0 E9 000F3 FB 000F6 E9 000FB E9 00101 D5 00104 12 0010A	68:	BICL2 MCOML BLBC CALLS BLBC BLBC BLBS TSTL BNEQ PUSHL PUSHAB	RO, R2 R2, NEW FILE NEW FILE, 7\$ NO, MAIL\$OPEN_IF STATUS, 9\$ MAIL\$GL FLAGS, 18\$ NEW FILE, 8\$	0661
7614	1A		50	E9 000FB	78.	BLBC	STATUS, 98	0665
	7D 08	00000000	52	E8 00101	7\$:	BLBS	NEW FILE, 8\$; 0666 ; 0668
		000000006	13	E8 00101 D5 00104 12 0010A		BNEQ	11\$	0669
		08	AE	DD 0010C 9F 0010E	85:	PUSHL PUSHAB	R4 FOLDER_DESC	0671
00000000G	00		54 AE 02 50	FB 00111 E8 00118	95:	RIAS	FOLDER_DESC #2, MAIL\$SELECT_MSGS STATUS, 10\$	
	67			04 0011B	10\$:	RET BICB2 MOVL BEQL	#32, MAILSGL_FLAGS	0672
	67 50		66	DO 0011F 13 00122	10\$:	MOVL	MAIL%L MSG STS. RO	0672 0673
007E8022	8F		50	13 00122 D1 00124 13 0012B		CMPL BEQL TSTL	12\$ RO, #8290338 12\$	0674
			6E	D5 0012D		TSTL	MSG_NUM	0675
			6E	13 0012F 05 00131 13 00133	128:	BEQL	MSG_NUM 13\$	0677
			7E	D4 00135		BEQL	-(SP)	
			02	DD 00139	135	BRB PUSHL	14 \$ #1	
	6B	04	260504E1E4E21E20	DD 0013B FB 0013E E9 00141 FB 00144	148:	PUSHL CALLS BLBC CALLS BLBS PUSHL	MSG_NUM #2. MAIL\$FIND_I_MSG RO. 15\$ #0. MAIL\$REWIND_I_MSG RO. 22\$	
000000006	6B 0A 00			FB 0013E E9 00141 FB 00144		BLBC	RO. 15\$ #O. MAIL SREWIND I MSG	0680
	61		00 50 66 66 67 01	E8 0014B		BLBS	RO 228 MAIL\$L_MSG_STS	0684
007E8042	8F		6F	11 00150		BRB CMPL	23\$ MAIL\$L_MSG_STS, #8290370	
00760042	OI.		6F	D1 00152 12 00159 DD 0015B DD 0015D	100.	BNEQ	25\$ #1	0692
	10		01	DD 0015D		PUSHL TUSHL	#1	0694
	6B 0F 00 05		02 50 50 53	F9 00162		CALLS BLBC CALLS BLBC PUSHL CALLS	#2. MAIL\$FIND_I_MSG RO. 17\$	
0000000G	00		00 50	FB 00165 E9 0016C DD 0016F FB 00171		CALLS	#0. MAIL\$REWIND_I_MSG RO. 17\$	0695
			53 01	DD 0016F FB 00171		PUSHL	EDIT FLAG	0697
	65 50 79		66 50 77	DO 00174	175:	MOVL BLBS BEQL	RO. 17\$ MO. MAIL\$REWIND_I_MSG RO. 17\$ EDIT FLAG M1. READ_MESSAGE MAIL\$L MSG_STS. RO RO. 30\$ 30\$	0698
	.,		77	E8 00177 13 0017A		BEQL	30\$	0699 0700
			70 64 05 AE 0A 8F	D5 0017E	18\$:	BRB TSTL BNEQ TSTW	SELECT_DATA	0705
		04	AE	D5 0017E 12 00180 B5 00182 13 00185		TSTW	FOLDER DESC	0706
		007E80AA		DD 00187	198:	PUSHL	20\$ #8290474	0707
	68		01	04 00190		RET	W1, LIBSSIGNAL	
	50		66 00 50	DO 00191	205:	MOVL	MAIL\$L_MSG_STS, RO	0708
007E8022	8F		50	13 00194 D1 00196		CMPL	RO, #8290338	0709

....

MAILSCMDS V04-000	VAX/VMS PERSONAL MAIL	UTILITY COMMANDS	B 7 16-Sep-1984 00:47:25 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:42:16 DISK\$VMSMASTER:[MAIL.SRCJCMDS.B32;1	Page 26
	00000000G 007E8042 00000000G	04 6E 20 52 52 8F 007E8042 8F 20 8F 007E8042 8F 20 13 01 01 18 50 65 01 14 50 66 50 66 50 66 66 67 68 60 60 60 60 60 60 60 60 60 60	4.0 4.4.0	0710 0712 0716 0718 0725 0727 0729 0730 0737 0739 0741

; Routine Size: 503 bytes. Routine Base: \$CODE\$ + 041A

MAI VO4

```
MAI
VO4
```

```
MAILSCMDS
VO4-000
                                                                                           16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                                                                                                                            VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]CMDS.B32;1
                      VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                      0744
                                  GLOBAL ROUTINE MAILSCMD_BACK =
   610
                      0746
0747
0748
0749
    611
                                    FUNCTIONAL DESCRIPTION:
   612
                                             This is the BACK command action routine and is called to display
                                             the previous message.
    615
                      0750
                      0751
0752
0753
0754
0755
0756
   616
                                     INPUTS:
    617
    618
                                             Current message context.
    619
    620
621
622
623
624
625
626
627
628
630
                                    OUTPUTS:
                                             The message before the current message is displayed on SYS$OUTPUT.
                      0758
                      0759
                                 BEGIN
                      0760
                                 LOCAL
                      0761
                                       EDIT_FLAG.
                      0762
0763
                                       MSGNOM:
                      0764
0765
                                 IF .DIR_MODE AND .MAIL$GL_FLAGS[MAIF_V_ISAM]
THEN BEGIN
                      0766
0767
   632
                                       MSGNUM = MAX(.MAIL$L MSG NUM-2*(.MAIL$L_OUTLINES-7),1);
IF MAIL$FIND I MSG(.MSGNUM,-1,1)
    THEN MAIC$DIRECTORY(.DIRFULL_FLAG);
                      0768
    634
                      0769
                                       DIR_FLAG = 0;
IF .MAIL$L MSG STS
THEN DIR_FEAG = 1;
    635
                                       RETURN TRUE:
   639
                                       END:
                      0775
   640
                      0776
0777
    641
                                    If positioned at the first message, then signal no more messages.
   642
                      0778
                                 IF (.MAIL$L_MSG_NUM - 1) LEQ 0
    644
                                 THEN BEGIN
                                       IF .MAIL$GL_FLAGS[MAIF_V_ISAM]
    645
                      0780
    646
                      0781
                                       THEN BEGIN
                                            IF .MAIL$L_NMSG_EQL_O
THEN MAIL$L_MSG_STS = MAIL$_NOMSGS
ELSE MAIL$L_MSG_STS = MAIL$_NOMOREMSG;
SIGNAL(.MAIL$L_MSG_STS);
    647
    648
   649
   651
652
653
                                             ELSE SIGNAL (MAILS_NOMOREMSG);
                                             RETURN TRUE:
   654
655
                                             END:
                      0790
                                 EDIT_FLAG = CLISPRESENT(SD_EDIT);
                      0791
0792
0793
0794
    656
    657
                                    If positioned past the last message, then display the last message.
   658
                                 IF .MAIL$L_MSG_STS EQL MAIL$_NOMOREMSG
    659
                      0795
                                             BEGIN
    660
                                  THEN
                      0796
0797
0798
    661
                                                 .MAIL$GL_FLAGS[MAIF_V_ISAM]
                                             THEN BEGIN
    662
                                                  MAIL$FIND I MSG(.MAIL$L_NMSG,-1);
IF NOT .MAIL$L_MSG_STS
THEN (SIGNAL(.MAIL$L_MSG_STS); RETURN TRUE);
    663
                      0799
    664
   665
                      0800
```

VAX-11 Bliss-32 V4.0-742 Page 28 DISK\$VMSMASTER:[MAIL.SRCJCMDS.B32;1 (11)

MAILSCMDS VO4-000	VAX/VMS	PERSONAL MAIL UTILITY COMMANDS	D 7 16-Sep-1984 14-Sep-1984	00:47:25 12:42:16
666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686	0801 0802 0803 0804 0805 0806 0807 0808 0810 0811 0812 0813 0815 0816 0817 0818 0817 0818 0819 0819 0810 0817 0818 0819 0810 0810 0810 0811 0810 0810	MAIL\$REWIND_I_MSG(); END ELSE MAIL\$FIND_MSG(.MAIL\$L_MSG READ_MESSAGE(.EDIT_FLAG); RETURN TRUE; END; Otherwise, just display the previous IF .MAIL\$GL_FLAGS[MAIF_V_ISAM] THEN BEGIN IF MAIL\$FIND_I_MSG(.MAIL\$L_MSG_NUM THEN MAIL\$REWIND_I_MSG() ELSE_IF_NOTMAIL\$L_MSG_STS THEN RETURN SIGNAL(.MAIL\$L_MSG END ELSE_MAIL\$FIND_MSG(.MAIL\$L_MSG_NUM-1); READ_MESSAGE(.EDIT_FLAG); RETURN TRUE END;	message 1,-1) _STS);	

			0	7FC	00000	.ENTRY	MAIL\$CMD_BACK, Save R2,R3,R4,R5,R6,R7,R8,-	: 0744
	59 58 57 56 55 54 0 53 3E	00000006 FB8A 00000006 00000006 00000006 00000006 000000	00 CF 00 00 00 00 00 00 00 00 64	9E999E999E9	00002 00009 0000E 00015 0001C 00023 0002A 00031 00038 0003C	MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB BLBC BLBC	R9,R10 LIB\$SIGNAL, R10 SD_EDIT, R9 MAIL\$L NMSG, R8 MAIL\$FIND_I_MSG, R7 DIR_FLAG, R6 MAIL\$L_MSG_NUM, R5 MAIL\$L_MSG_STS, R3 DIR_MODE, 3\$ MAIL\$L_MSG_STS, R3 DIR_MODE, 3\$ MAIL\$L_MSG_NUM, R1 MAIL\$L_MSG_NUM, R1 MAIL\$L_OUTCINES, R0 R0, R1	0764 0765
	50 51 50	00000000 0E	65 00 02 50 A1 03	DO 042	0003F 00042 00049 0004C 0004F 00053	MOVL MOVL MULL2 SUBL2 MOVAB BGTR	14(R1), R0 1\$	0767
	50 7E 67 0B		01 01 50 03	DO DE DE DE FB	00055 00058 0005A 0005D 0005F 00062	MOVL PUSHL MNEGL PUSHL CALLS BLBC MOVZBL	#1, RO #1 #1, -(SP) MSGNUM #3, MAILSFIND_I_MSG RO. 28	0768
000000006	08 7E 00 58 66	01	A6 01 66 63 01 53	9A FB 94 E9 11	00065 00069 00070 2\$: 00072 00075 00078	MOVZBL CALLS CLRB BLBC MOVB BRB	RO, 2\$ DIRFULL FLAG, -(SP) #1, MAIC\$DIRECTORY DIR FLAG MAIC\$L MSG STS, 9\$ #1, DIR_FLAG 9\$	0769 0770 0771 0772 0773

MAILSCMDS V04-000	VAX/VMS PERSONAL MAIL	UTILITY COMMANDS	5		1	-Sep-1	984 00:47 984 12:42	7:25 VAX-11 Bliss-32 V4.0-742 2:16 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;1	Page 29 (11)
		01	5	01	0007A	3\$:	CMPL	MAIL\$L_MSG_NUM, #1	; 0778
		18	23 48 9 8 7	D1 14 E9 D5	0007A 0007D 0007F 00082 00084 00086		CMPL BGTR BLBC TSTL	MAILSGL FLAGS, 68 MAILSL NMSG	0780 0782
		63 007E804A)9 3F	12	00084		BNEQ	#8290378, MAIL\$L_MSG_STS	0783
		63 007E8042)7 }F	11 DO DD	UUUUAF	6.36	BRB MOVL PUSHL	58 #8290370 MAIL\$L_MSG_STS MAIL\$L_MSG_STS	0784 0785
		007E8042	3 0 8 9	11 DD	00096 00098 0009A 000A0	68:	BRB PUSHL	8\$ #8290370	0787
			8	DD 11 DD	000A0	78:	BRB	8\$ R9	:
	00000000G	00 0	1	f B	00044	70:	CALLS	N1, CLISPRESENT	0790
	007E8042	00 52 8F		DO D1 12	OOOAE		CMPL	RO, EDIT_FLAG MAIL\$L_MSG_STS, #8290370 11\$	0794
		15 7E	1	E9 CE	000A2 000A4 000AB 000AE 000B7 000BA 000BD 000BF 000C2		BRB PUSHL CALLS MOVL CMPL BNEQ BLBC MNEGL PUSHL CALLS MOVL BLBS PUSHL CALLS	MAIL\$GL_FLAGS, 10\$	0796 0798
		67 50 10)2	DD FB DO	000BF 000C2		CALLS MOVE	MAILSL NMSG #2. MAILSFIND 1 MSG MAILSL MSG_STS, RO RO, 128	0799
		10 5	Ŏ	E8 DD	000C5 000C8		BLBS	RO. 12\$	
		6A 0	1	FA	A1000	8\$: 9\$:	CALLS	17\$ LIB\$SIGNAL	0800
		6	1 8 5 9	DD 11	000CD 000CF 000D1 000D3	108:	PUSHL	MAIL\$L_MSG_NUM	0803
	50	20 6	4	E9	10000	115:	BRB SUBL3 BLBC MNEGL	#1, MAIL\$L_MSG_NUM, RO MAIL\$GL_FLAGS_14\$	0812 0810 0812
		67	0	DD	000DD		PUSHL	#1, -(SP) RO #2, MAIL\$FIND_I_MSG	. 0012
	0\$000000G	67 09 00	0	FB FB	000DD 000DF 000E2 000E5	128:	BLBC	RO. 13\$ #0. MAIL\$REWIND_I_MSG 16\$	0813
		50 6 0F 5	3	- טמ	UUUFE	13\$:	BRB MOVL	MAIL\$L MSG_STS, RO RO, 16\$	0814
		5	0	DD FB	000F1 000F4 000F6		BLBS PUSHL CALLS	RO #1, LIB\$SIGNAL	0815
		5		04	000F9	1/8.	RET		0917
	00000000G	00 0	1	FB	000FC	14 \$: 15 \$: 16 \$:	PUSHL CALLS PUSHL	RO MAILSFIND_MSG	0817
	FC75	CF 0	1	DD FB	00103	103:	CALLS	EDIT_FLAG #1. READ_MESSAGE #1. RO	0818
		50 0	1	00 04	00105 0010A 0010D	1/5:	MOVL RET	#1, R0 ,	0820 0822

; Routine Size: 270 bytes, Routine Base: \$CODE\$ + 0611

```
MAILSCMDS
VO4-000
                                                                                            16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                       VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                                                                                                                              VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]CMDS.B32;1
                                  GLOBAL ROUTINE MAILSCMD_CONTINUE =
   FUNCTIONAL DESCRIPTION:
                                             This is the <RETURN> command action routine and is called to continue the last display type command. If the last command was a READ command, then the READ command action routine will be called. If the last command was a DIRECTORY command and there are more messages to be
                                              displayed, then the DIRECTORY routine will be called.
                                     INPUTS:
                                             DIR_FLAG = 1 if last command was a DIRECTORY command and there are
                                                               more messages to be displayed.
                                     OUTPUTS:
                                             Appropriate action routine selected.
                                 BEGIN
IF DIR FLAG
THEN BEGIN
                                                                                                                  ! If more to display
                                              MAILSDIRECTORY (.DIRFULL_FLAG);
                                              IF NOT .MAIL$L_MSG_STS
                                                                                                                   ! If no more messages
                                                         DIR_FLAG = 0;
                                                                                                                  ! then clear flag
                                             END
                                  ELSE
                                             MAILSCMD_READ(1);
                                  RETURN TRUE
                                  END:
```

000000006	52 0000000 16 7E (00 00 0000000	00° 00 62 01 A2	9E 00002 E9 00009 9A 00000 FB 00010 E8 00017 94 0001E	MOVAB BLBC MOVZBL CALLS BLBS CLRB BRB 15: PUSHL	MAILSCMD CONTINUE, Save R2 DIR_FLAG, R2 DIR_FLAG, 1\$ DIRFULL_FLAG, -(SP) #1, MAILSDIRECTORY MAIL\$L_MSG_STS, 2\$ DIR_FLAG	0825 0843 0845 0846
FCD2	CF 50	07 01 01 01	11 00020 DD 00022 FB 00024 DO 00029 04 00020	BRB PUSHL CALLS CALLS RET	DIR_FLAG 2\$ #1 #1, MAIL\$CMD_READ #1, RO	0846 0848 0843 0851 0852 0853

MA!

; Routine Size: 45 bytes, Routine Base: \$CODE\$ + 071F

720 0854 1

01 DD 00005 PUSHL #1	MAILSCMDS VO4-000	VAX/VMS	PERSONAL MAIL	UTILITY COMMAN	NDS		16-Sep-1 14-Sep-1	984 00:47 984 12:42	7:25 2:16	VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;	Page 31
0000 00000 TELL_CREATED: .WORD Save nothing 04 AC DD 00002 PUSHL DESC 01 DD 00005 PUSHL #1 007E1071 8F DD 00007 PUSHL #8261745	722 723 724 725 726 727 728 729	0855 1 0856 1 0857 1 0858 1 0859 1 0860 1 0861 1	FUNCTIONAL D	ESCRIPTION: that an ISAM	file	was cr	eated for	the copy	y command	d	
04 00014 RET			00000000G	007E1071	01 8F 03	DD 0000 DD 0000 DD 0000 FB 0000 04 000	00 TELL_C	REATED: .WORD PUSHL PUSHL PUSHL CALLS RET	Save no DESC #1 #826174 #3, LI	othing 45 B\$SIGNAL	085

MAI VO4

; #

```
MAILSCHDS
VO4-000
                                                                                                                      16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                             VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                                                                                                                                                                 VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRCJCMDS.B32;1
                             0863
0864
0865
0866
0867
0868
0869
0870
0871
0873
0874
0875
0876
0877
                                            GLOBAL ROUTINE MAILSCMD_COPY =
     FUNCTIONAL DESCRIPTION:
                                                           This is the COPY command, which takes a copy of the current message and copies it to the specified folder/file
                                            BEGIN
                                            LOCAL
                                                   COPY_FLAGS : $BBLOCK[4]:
                                            CLISGET_VALUE(SD_FOLDER_NAME,DYN_DESC);
IF_ERR(CHECK_FOLDER(DYN_DESC);
                                                           RETURN . STATUS) :
                                            COPY_FLAGS = 0:
                                            COPY_FLAGS[MCR_V_ALL] = CLISPRESENT(SD_ALL) AND 1;
                             0880
0881
0882
0883
0884
0885
0886
0887
0888
0889
                                            CLISGET_VALUE(SD_FILE,DYN_DESC_2);
                                           IF NOT .COPY_FLAGS[MCR_V_ALL]
AND (IF .MAIL$GL_F[AGS[MAIF_V_ISAM]
THEN .MAIL$L_CURMSG_EQL_0
ELSE NOT MAI[$REWIND_MSG())
                                                   THEN RETURN SIGNAL (MAILS NOTREADIN):
                             0890
                                           IF CLISPRESENT(SD_CONFIRM)
THEN COPY_FLAGS[MCR_V_CONFNEW] = 1;
                             0891
0892
0893
0894
                                            MAILSCOPY_MSGS(DYN_DESC_2,DYN_DESC,.COPY_FLAGS,TELL_CREATED);
                                           RETURN TRUE
                                           END:
                                                                                                            00000
00002
00009
00010
00017
0001E
00021
00023
00028
0002B
00031
00034
00039
00035
00042
                                                                                                                                                      MAILSCMD COPY, Save R2,R3,R4,R5,R6 CLISPRESENT, R6
                                                                                                     007C
                                                                                                                                        .ENTRY
                                                                                                                                                                                                                                           0863
                                                                            00000000G
00000000G
00000000'
F914
                                                                                                        9EE99EBBFDFB9FF9FF9F
                                                                       56
55
54
53
                                                                                                 0000C18241022310432
                                                                                                                                        MOVAB
                                                                                                                                                      CLISGET_VALUE, R5
DYN DESC, R4
SD FOLDER NAME, R3
M^M<R3, R45
W2, CLISGET_VALUE
                                                                                                                                        MOVAB
                                                                                                                                        MOVAB
                                                                                                                                        MOVAB
                                                                                                                                        PUSHR
                                                                                                                                                                                                                                           0875
                                                                       65
                                                                                                                                        CALLS
                                                                                                                                        PUSHL
                                                                                                                                                                                                                                           0877
                                                          FC24
                                                                       CF
67
                                                                                                                                        CALLS
                                                                                                                                                      #1. CHECK FOLDER
STATUS, 58
                                                                                                                                        BLBC
                                                                                                                                                     COPY FLAGS
SD_ACL
#1, CLISPRESENT
RO, #1, #1, COPY_FLAGS
DYN_DESC_2
SD_FILE
#2, CLISGET_VALUE
#1, COPY_FLAGS, 38
MAILSGL_FLAGS, 18
                                                                                                                                        CLRL
                                                                                                                                                                                                                                           0879
                                                                                    FF74
                                                                                                                                        PUSHAB
                                                                                                                                                                                                                                           0880
                                                                       66
                                                                                                                                        CALLS
                    52
                                              01
                                                                                                                                        INSV
                                                                                        08
EC
                                                                                                                                        PUSHAB
                                                                                                                                                                                                                                           0882
                                                                                                                                        PUSHAB
```

CALLS

BBS

BLBC

29

00000000G

MA.

0884 0885

MAILSCMDS VO4-000	VAX/VMS PERSONAL MAIL UTILITY COMMANDS						1 7 16-Sep-1984 00:47:25 VAX-11 Bliss-32 V4.0-1 14-Sep-1984 12:42:16 DISK\$VMSMASTER:[MAIL.					Page 3
				00000000G	00 1 A	D5 12	0004D 00053		TSTL	MAILS 38	L_CURMSG	: 088
		0000000G	00 0E		0A 00	FB FA	00055 00057 00056	18:	CALLS BLBS	28 #0, M	AIL\$REWIND_MSG	088
		000000006	00	007E8022	50 8F 01	DD	00067	2\$:	TSTL BNEQ BRB CALLS BLBS PUSHL CALLS	R0 3 #8290 #1, L	338 IB\$SIGNAL	088
			66	94	A3 01	9F FB	00072	38:	PUSHAB	#1. C	NFIRM LISPRESENT	089
			66 05 52	0100 FF 6A	50 8F CF 52	E9 A8 9F DD	00075 00078 00070 00081	48:	CALLS BLBC BISW2 PUSHAB PUSHL	RO. 4 #256. TELL	COPY FLAGS CREATED	089 089
		000000006	00 50	08	54 04 01	DD 9F FB DO 04	00083 00085 00088 0008F 00092		PUSHL PUSHAB CALLS MOVL RET	R4 DYN_D #4, M	FLAGS ESC_2 AIL\$COPY_MSGS 0	089 089

; Routine Size: 147 bytes, Routine Base: \$CODE\$ + 0761

```
MAILSCMDS
VO4-000
                                                                                                                                16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                                                                                                                                                                               VAX-11 Bliss-32 V4.0-742
DISKSVMSMASTER:[MAIL.SRC]CMDS.B32;1
                                VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                               0896
0897
0898
0899
0900
0901
0902
0903
0904
0905
0906
0907
0910
0911
0913
0914
     765
766
767
768
769
770
771
773
774
775
776
                                                GLOBAL ROUTINE MAILSCMD_DELETE =
                                                   FUNCTIONAL DESCRIPTION:
                                                                This is the DELETE command action routine and is called to delete
                                                                the current message.
                                                    INPUTS:
                                                                Current message context.
                                                   QUIPUTS:
                                                                The current message is deleted from the file it is in.
      780
                                               BEGIN
      781
782
783
784
                                               LOCAL
                                                                DELMSGNUM,
                                                               SAVE MSGNUM,
ALL FLAG,
STATUS;
                                0916
0917
      785
                                                                                                                                               ! Routine status
      786
787
                               0918
0919
0920
0921
                                               ALL_FLAG = CLISPRESENT(SD_ALL);
IF .MAILSGL_FLAGS[MAIF_V_ISAM]
THEN BEGIN
      788
      789
      790
                                                        IF CLISGET_VALUE(SD_DELNUM, DYN_DESC)
THEN BEGIN
                               0922
      791
                                                               IF_ERR(LIBSCVT_DTB(.DYN_DESC[DSCSW_LENGTH],.DYN_DESC[DSCSA_POINTER],

DELMSGNUM);

RETURN SIGNAL(MAILS BADVALUÉ,1,DYN_DESC));

IF .DELMSGNUM GTRU .MAILSL RMSG

THEN RETURN SIGNAL(MAICS NOMSGS);

IF .MAILSL MSGTBL[.DELMSGNUM=1] EQL 0

THEN RETURN SIGNAL(MAILS_DELMSG);
     792
793
                               0924
0925
0926
0927
      794
      795
     796
797
                               0928
0929
0930
0931
0933
0933
0935
0936
0937
0938
0940
0941
0944
0944
0944
0948
0949
      798
      799
     800
                                                               Make sure we don't point past the end of the folder
      801
                                                               IF .MAIL$L_MSG_NUM GTRU .MAIL$L_NMSG THEN SAVE_MSGNUM = 0
                                                               SAVE MSGNUM = .MAIL$L MSG_NUM;

MAIL$L_MSG_NUM = .DELMSGNUM;

MAIL$L_CURMSG = .MAIL$L MSGTBL[.DELMSGNUM-1];

STATUS=MAIL$DELETE I_MSG();

IF .STATUS EQL MAIL$ NOTREADIN

OR .STATUS EQL MAIL$ DELWASTE

THEN SIGNAL(.STATUS);

MAIL$L MSG_NUM = .SAVE_MSGNUM;

IF .SAVE_MSGNUM_NEQ O

THEN MAIL$L CURMSG = .MAIL$L MSGTRL[.SAVE_MSG
     808
809
                                                                 THEN MATLEL_CURMSG = .MAILEL_MSGTBLE.SAVE_MSGNUM-1];
                                                               RETURN TRUE
                                                                END:
     816
817
                                                            Delete all the messages if /ALL
                                                        IF .ALL_FLAG
                                0951
                                                        THEN BEGIN
```

IF CH\$EQL(.MAIL\$Q_CURFOLDER[DSC\$W_LENGTH],

MA!

```
MAILSCHDS
VO4-000
                                  VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                                                                                                                                         16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                                                                                                                                                                                            VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]CMDS.B32;1
                                                                   .MAIL$Q_CURFOLDER[DSC$A_POINTER],
.MAIL$Q_WASTEDESC[DSC$W_LENGTH],
.MAIL$Q_WASTEDESC[DSC$A_POINTER],0)
THEN RETURN SIGNAL (MAIL$ DE[WASTE);
SAVE MSGNUM = .MAIL$L_MSG_NUM;
IF .MAIL$L_NMSG GTRU U
THEN INCRU I FROM 1 TO .MAIL$L_NMSG
                                 0953
0954
0955
0956
0957
0958
0969
0963
0964
0965
0966
0967
0976
0977
0976
0977
0977
0978
0979
0980
     2345678901234567890123
2345678901234567890123
                                                                    DO BEGIN
                                                                            MAILSL CURMSG = .MAILSL_MSGTBL[.!-1];
IF .MAILSL_CURMSG NEQ O
THEN BEGIN
                                                                                     MAILSL MSG NUM = .I:
MAILSDELETE_I_MSG();
                                                                                     END:
                                                                    END;
MAIL$L MSG NUM = .SAVE_MSGNUM;
IF .SAVE_MSGNUM NEQ 0
                                                                             THEN MAILSL_CURMSG = .MAILSL_MSGTBL[.SAVE_MSGNUM-1];
                                                                    RETURN TRUE
                                                                    END:
                                                                Just delete a single message
                                                           STATUS = MAIL$DELETE_I MSG();
IF .STATUS EQL MAIL$_NOTREADIN
OR .STATUS EQL MAIL$_DELWASTE
THEN SIGNAL(.STATUS)
ELSE IF .STATUS THEN MAIL$CMD_ERASE();
                                 0981
0982
0983
0984
0985
     850
                                                           END
                                                 ELSE BEGIN

IF .ALL FLAG

THEN RETURN SIGNAL (MAILS_NOTISAM);

MAIL SDELETE_MSG();
                                                           STATUS = MAIL SDELETE_MSG();
IF NOT .STATUS
                                                                                                                                                          ! Delete the message
                                 0986
0987
0988
     856
857
858
                                                            THEN
                                                                    SIGNAL (.STATUS)
                                                                                                                                                         ! Signal the failure
                                  0989
                                 0990
0991
                                                                    MAILSCMD_ERASE();
                                                                                                                                                         ! Erase the screen
      860
                                                            END:
      861
                                  0992
                                                   RETURN TRUE
                                 0993
                                                  END:
                                                                                                                                                                              MAIL$CMD DELETE, Save R2,R3,R4,R5,R6,R7,R8,-
R9,R10,RT1
MAIL$L_CURMSG, R11
MAIL$L_NMSG, R10
MAIL$L_MSGTBL, R9
LIB$SIGNAL, R8
DYN_DESC, R7
                                                                                                                     OFFC 00000
                                                                                                                                                              .ENTRY
                                                                                                                                                                                                                                                                                 0896
                                                                                        00002
00009
00010
                                                                                                                          9E
9E
9E
9E
9E
9E
9E
9E
                                                                                                                                                              MOVAB
                                                                                                                 00
00
00
00
00
04
                                                                                                                                                              MOVAB
                                                                                                                                                              MOVAB
                                                                                                                                00017
0001E
00025
0002C
                                                                                                                                                              MOVAB
                                                                                                                                                                              DYN DESC, R7
MAICSL_MSG_NUM, R6
#4. SP
SD_ALL
#1, CLI$PRESENT
                                                                                                                                                              MOVAB
                                                                                                                                                             MOVAB
SUBL 2
PUSHAB
                                                                                                                 ČF
01
                                                                                                  F7DD
                                                                                                                                                                                                                                                                                 0918
                                                            00000000G
                                                                                                                                                              CALLS
```

MA. VO

MAILSCMDS V04-000	VAX/VMS PERSONAL MAIL	UTILITY COMMANDS	16-Sep-1984 00:47:25	ge 36 (15)
		53 03 00000000G 00 0117	DO 0003A MOVL RO, ALL_FLAG E8 0003D BLBS MAIL\$GL_FLAGS, 1\$	0919
	00000000G	F803 CF	DO 0003A	0921
	00000000G	7E 04 A7 07 03 05 57	DD 0005A 2\$: PUSHL SP DD 0005C PUSHL DYN_DESC+4 3C 0005F MOVZHI DYN_DESC -(SP)	0925
		68 007E1112 8F 03	FB 00062	
		6A 6E	D1 0007A 3\$: CMPL DELMSGNUM, MAIL\$L NMSG	0926
		6A 6E 08 08 8F 70	1B 0007D BLEQU 4\$ DD 0007F PUSHL #8290378 11 00085 BRB 11\$	0927
		50 52 6E FC A042 08	DO 00087 45: MOVL MAILSL MSGTBL, RO DO 0008A MOVL DELMSGNUM, R2 D5 0008D TSTL -4(R0)[R2]	0928
		007E80B2 8F	DD 00095 PUSHL #8290482	0929
		50 66 6A 50 04 54 03 54	DO 0009B 5\$: MOVL MAIL\$L_MSG_NUM, RO D1 0009E CMPL RO, MAIL\$L_NMSG 1B 000A1 BLEQU 6\$ D4 000A3 CLRL SAVE_MSGNUM	0933
	000000006	54 50 66 6E 50 69 6B FC A042 00 00 55 50	DO 000A7 65: MOVL RO, SAVE MSGNUM DO 000AA 78: MOVL DELMSGNUM, MAIL\$L_MSG_NUM DO 000AD MOVL MAIL\$L_MSGTBL, RO	0935 0936 0937
	007E8022	55 8F 55	DO 000BC MOVE RO, STATUS	0938
	007E80BA	8F 55	13 000C6 BEQL 8\$ D1 000C8 CMPL STATUS, #8290490	0940
		05 55	12 000CF BNEQ 9\$ DD 000D1 8\$: PUSHL STATUS	0941
		68 66 54 58	FB 000D3	
00000000G 00	00	50 51 000000006 00 50 000000006 00 61 000000006 00 08 007E80BA 8F 61	12 000D9 BNEQ 17\$ 11 000DB BRB 18\$ E9 000DD 10\$: BLBC ALL FLAG, 19\$ D0 000E0 MOVL MAIL\$Q CURFOLDER+4, R1 D0 000E7 MOVL MAIL\$Q WASTEDESC+4, R0 2D 000EE CMPC5 MAIL\$Q CURFOLDER, (R1), #0, - 000FB MAIL\$Q WASTEDESC, (R0) 12 000FC BNEQ 12\$ DD 000FE PUSHL #8290490	0942 0943 0945 0950 0953 0955 0952
		007E80BA 8F	12 000FC BNEQ 12\$ DD 000FE PUSHL #8290490	0956
		54 66	11 00104 118: BRB 218 DO 00106 128: MOVL MAIL\$L_MSG_NUM, SAVE_MSGNUM	0957

MA

50

MAILSCMDS VO4-000	VAX/VMS PERSONAL MAIL	UTILITY COMM	ANDS		M 7 16-Sep-1 14-Sep-1	984 00:47 984 12:42	:25 VAX-11 Bliss-32 V4.0-742 :16 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;1	Page 37 (15)
		53	6A 20 01	DO 00	109 100	MOVL BEQL MOVL	MAIL\$L_NMSG, R3	: 0958
		52	01	DO 00	10E	MOVL BRB	#1 I	0959
		50 68 FC	A0 0500000055554394		113 138: 116 11B	MOVL MOVL BEQL	MAIL\$L_MSGTBL, RO -4(RO)[I], MAIL\$L_CURMSG	0961
		66	QA 52	13 00	11B	BEQL	143	0962
	000000006	66	δğ	DO 000 DO 000 DO 000 FB 000 D6 000	110 120 127 148:	CALLS	NO, MAIL\$LETE_I_MSG	0962 0964 0965 0959
		53	52	D1 00	129 158:	INCL CMPL	13s R3	; 0959
		66	54	18 00 00 00 13 00	12E 168:	BLEQU MOVL	SAVE_MSGNUM, MAIL\$L_MSG_NUM	0968
		50 68 FC	69 A044	DO 00.	133 176:	BEQL MOVL	25\$ MAIL\$L_MSGTBL, RO -4(RO)[SAVE_MSGNUM], MAIL\$L_CURMSG	0968 0969 0970
	000000006	00 16	49	DO 00	136 13B 185: 13D 195: 144 147	MOVL BRB CALLS	25\$	0971 0976
	007E8022	00 55 8F	00 55 28 55	FB 00	144	MOVL	25\$ #0, MAIL\$DELETE_I_MSG R0, STATUS STATUS, #8290338	
			28	15 00	14E	BEQL	233	0977
	007E80BA	8F	16	13 00	150 157	BEQL	STATUS, #8290490	0978
		2A	55 21 53	E9 00	157 159 150	BRB	STATUS, 25\$ 24\$	0980
		007E80AA	8F 01	DD 00.	15E 208:	BEQL BLBC BRB BLBC PUSHL CALLS	ALL FLAG. 22\$ #8290474	9983 9984
		68		04 00	167 21\$: 16A	REI	#1, LIB\$SIGNAL	
	00000000G	00 55 07	00 55 55	FB 00'	16B 22\$:	CALLS	NO. MAILSDELETE_MSG RO. STATUS	0985
			55 55	E8 00	175 178 23\$:	PUSHL	RO, STATUS STATUS, 24\$ STATUS	0986
		68	01	FB 00°	17A 17D	CALLS BRB	#1, LIB\$SIGNAL	
	00000000G	00 50	00	FB 00'	17F 24\$: 186 25\$: 189	CALLS	#0. MAIL\$CMD_ERASE #1. RO	0990 0992 0993

MA

; Routine Size: 394 bytes, Routine Base: \$CODE\$ + 07F4

```
MAILSCHDS
VO4-000
                                                                                                                                      VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]CMDS.B32;1
                        VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                        0994
0995
0996
0997
0998
0999
1000
1001
1002
1005
1006
1007
1008
1009
                                    GLOBAL ROUTINE MAIL$CMD_DIRECTORY =
    8645
8665
8668
870
8712
875
876
877
878
879
                                       FUNCTIONAL DESCRIPTION:
                                                 This is the DIRECTORY command action routine and is called to
                                                display a summary of all the messages in the current file or a specified file.
                                       INPUTS:
                                       OUTPUTS:
                                                DIR_FLAG = 1 if more messages to display.
                                                A summary of each message is displayed on SYS$OUTPUT.
                        1010
1011
1012
1013
1014
1015
1016
1017
    880
                                    BEGIN
    881
882
883
884
885
                                    LOCAL
                                          FOLDER DESC : $BBLOCK[DSC$C_S_BLN], START_MSGNUM,
                                          START FLAG,
    886
887
                                          NEW_FILE;
                        1018
    888
    889
                                    DIR_FLAG = 0:
                                    DIRFULL_FLAG = 0;
    890
                        1020
                                    INIT_SDESC (FOLDER_DESC):
    891
                        1021
                                    IF CEISGET VALUE (SD_FOLDER_NAME, DYN_DESC_3)
                        1022
    892
    893
                                    THEN BEGIN
                                          FOLDER_DESC[DSC$W_LENGTH] = .DYN_DESC_3[DSC$W_LENGTH];
FOLDER_DESC[DSC$A_POINTER] = .DYN_DESC_3[DSC$A_POINTER];
IF_ERR(CHECK_FOLDER(FOLDER_DESC);
RETURN .STATUS);
                        1024
    894
    895
                       1026
    896
    897
                        1028
1029
    898
                                    INIT_SELECT_DATA();
IF_ERR(PARSE_SELECTION_QUALS();,
RETURN .STATUS);
    899
                        1030
    900
    901
                        1031
                        1032
    902
    903
                                    IF .SELECT_FLAGS[QUAL_NEW]
AND NOT .MAIL$GL_FLAGS[MAIF_V_DFMSG]
                        1034
    904
    905
                                          THEN MAILSCLOSE_FILE();
                        1036
1037
1038
    906
                                    START FLAG = CLISGET_VALUE(SD_START.DYN_DESC_2);
DIRFUEL_FLAG = CLISPRESENT(SD_FULL);
IF CLISPRESENT(SD_FOLDER)
    907
    908
                        1039
    909
                        1040
    910
                                    THEN BEGIN
                                          IF_ERR(MAIL$OPEN_IF();
RETURN .STATUS);
IF NOT .MAIL$GL_FLAGS[MAIF v ISAM]
THEN RETURN SIGNAL (MAI[$_NOTISAM)
    911
    912
913
                        1042
                         1044
                         1045
                                                 ELSE RETURN MAILSDIR_FOLDER(DYN_DESC_2);
                        1046
    916
                                           END:
                         1047
    918
919
                         1048
                                     IF .START_FLAG
                                     THEN BEGIN
                         1049
                     P 1050
                                           IF ERR(LIBSCVT_DTB(.DYN_DESC_2[DSC$W_LENGTH],.DYN_DESC_2[DSC$A_POINTER],
```

VO

```
8
MAILSCHDS
VO4-000
                                                                                                                                                 16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                                    VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                                                                                                                                                                                                      VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                                      DISKSVMSMASTER: [MAIL.SRC]CMDS.B32;1
                                   1051
1052
1053
1054
1055
                                                                                          START_MSGNUM);
RETURN SIGNAL(MAILS_BADVALUE,1,DYN_DESC_2));
      9223
9223
9225
9227
923
923
933
933
933
933
933
                                                               IF .START_MSGNUM EQL O
                                                                        THEN START_MSGNUM = 1:
                                    1056
1057
1058
                                                      ELSE START_MSGNUM = 0:
                                                     IF (NEW_FILE = NOT .MAIL$GL_FLAGS[MAIF_V_FILOPN]
OR (.FOLDER_DESC[DSC$W_LENGTH] NEQ 0)
OR (.SELECT_DATA[O] NEQ 0))
THEN IF_ERR(MAIL$OPEN_IF();
RETURN .STATUS);
IF .MAIL$GL_FLAGS[MAIF_V_ISAM]
THEN BEGIN
IF .NEW_FILE
OR .MAIL$L_NMSG_EQL_0
THEN IF_ERR(MAIL$SELECT_MSGS(FOLDER_DESC, SELECT_DATA);,
RETURN .STATUS);
IF .MAIL$L_NMSG_EQL_0
THEN RETURN SIGNAL(MAIL$ NOMSGS);
                                    1059
                                     1060
                                    1061
                                    1062
                                    1064
                                    1066
                                                            IF .MAIL$L NMSG EQL 0
THEN RETURN SIGNAL (MAIL$_NOMSGS);
IF .START_MSGNUM EQL 0
THEN START_MSGNUM = (IF .NEW_FILE
OR (.MAIE$L_MSG_NUM_LEQ 1)
       938
939
                                     1068
                                    1069
1070
1071
1072
1073
1074
1075
1076
1077
1078
1079
       940
                                                                       ELSE MAX(1,MIN(.MAIL$L_MSG_NUM,
.MAIL$L_NMSG-.MAIL$L_OUTLINES+7+1)))
ELSE START_MSGNUM = MAX(1,MIN(.START_MSGNUM,
.MAIL$L_NMSG-.MAIL$L_OUTLINES+7+1));
                                                               IF MAIL$FIND 1 MSG(.START MSGNUM,1,1)
THEN MAIL$DIRECTORY(.DIRFULL_FLAG);
                                     1080
                                    1081
1082
1083
1084
1085
1086
1087
1088
                                                   ELSE BEGIN

IF .SELECT DATA[O] NEQ 0

OR .FOLDER DESCLOSCSW LENGTH] NEQ 0

OR .START FLAG OR .DIRFULL FLAG

THEN RETURN SIGNAL (MAILS NOTISAM);

THEN MSG(1, NEW_FILE)
                                                               END
      958
959
                                                               THEN
      960
961
962
963
964
965
                                    1090
1091
                                                                        MAIL$DIRECTORY(0);
                                                                                                                                                                  ! Display directory
                                                               END:
                                    1092
1093
                                                     DIR_MODE = 1:
IF .MAIL$L_MSG_STS
                                    1094
1095
                                                                                                                                                                  ! If more to display,
                                                      THEN
      966
                                    1096
1097
1098
                                                      DIR_FLAG = 1;
RETURN TRUE
                                                                                                                                                                  ! then set flag
      968
                                                     END:
```

OFFC 00000

.ENTRY MAIL\$CMD_DIRECTORY, Save R2,R3,R4,R5,R6,R7,-: 0994
R8,R9,R10,R11
MOVAB MAIL\$L MSG_NUM, R11
LIB\$SIGNAL, R10

MA

					14-2ep-	1984 12:42		DISKOVMSMASTER: LMAIL. SRCJCMDS. 832; 1	(16)
	5987654E	000000000 000000000 000000000 F8D6 00000000	5 00	9E 0001 9E 0001 9E 0002 9E 0002 9E 0003 C2 0003 C2 0003 C2 0003 C2 0003 C3 0004 C4 0004 C5 0004 C6 0004 C7		MOVAB MOVAB MOVAB MOVAB MOVAB SUBL2 CLRW CLRQ PUSHAB	CLI CLI MAI MAI SEL #12 DIR FOL DYN	SPRESENT, R9 SGET VALUE, R8 L\$L RMSG, R7 L\$GE FLAGS, R6 L\$OPEN IF, R5 ECT FLAGS, R4 SP FLAG DER DESC DESC 3 FOLDER NAME CLI\$GET_VALUE 1\$ DESC 3+4, FOLDER_DESC+4 DER DESC CHECK FOLDER TUS, 3\$ INIT SELECT DATA PARSE SELECTION_QUALS TUS, 3\$ SELECT FLAGS, 2\$ MAIL\$GE FLAGS+1, 2\$ MAIL\$GE FLAGS+1, 2\$ MAIL\$GET_VALUE DESC 2 START CLI\$GET_VALUE	1019 1021 1022
	68 15		02 50	FB 00041		CALLS	#2.	CL1\$GET_VALUE	
04	AE	34 38 04	A4 A4 AE	BO 00041 DO 00051 9F 00058		PUSHAB CALLS BLBC MOVW MOVL PUSHAB	DYN DYN FOL	DESC_3. FOLDER_DESC DESC_3+4. FOLDER_DESC+4 DER_DESC	1024 1025 1027
0129	C5		01	FB 00058	18:	BLBC	#1 STÁ	CHECK FOLDER	
1D 38	C5 40 A5 A5		00 00 50	FR 0006	/	CALLS BLBC CALLS CALLS BLBC	#0. STA	INIT_SELECT_DATA PARSE_SELECTION_QUALS TUS. 3\$	1029
0C 07 01	64 A6		04	E9 00061 E1 00061 E0 00077 FB 0007		BBC	#4.	SELECT FLAGS, 28 MAILSGE FLAGS+1, 28	1033
000000006	00	20	00	FB 00071	? 28:	CALLS PUSHAB	MO.	MAILSCLOSE_FILE	1035
	68	F821	CF	9F 0008		PUSHAB	SD_	START VALUE	
	68 53	F6AB	02 50 CF	DO 00088	3	CALLS MOVL PUSHAB	RO.	START_FEAG	1079
	69	rono	01 50	FB 00081		CALLS	#1-	CLICOPECENT	1038
FD	A4	F688	CF	90 00092 9F 00096	5	MOVB PUSHAB	SD_	DIRFULL_FLAG FOLDER CLISPRESENT 58 MAILSOPEN_IF TUS. 118	1039
	69 17 65 67 03		01 50	FB 0009/ E9 00090		CALLS BLBC CALLS	RO.	CLISPRESENT 5\$	
	65		00 50	E9 00090 FB 000A0 E9 000A	35:	BLBC	NO.	MAIL\$OPEN_IF	1042
	03		0062	EX DODA		BLBC BLBS BRW	MAI 23\$	SGL_FLAGS, 48	1043
000000006	00	20	00F2 A4 01	31 000A9 9F 000A0 FB 000A1 04 000B0	48:	PUSHAB	DYN	DESC 2 MAIL\$DIR_FOLDER	1045
00000000	2B			04 000B	58.	RET			10/8
	20	70	5E	DD OOORA		BLBC PUSHL	SP	RT_FLAG, 7\$	1048
00000000	7E 00	30 20	A4	E9 000B7 DD 000B7 3C 000B1 FB 000C7 E8 000C7		MOVZWL	DYN	DESC_2+4 DESC_2, -(SP) LIB\$CVT_DTB TUS, 6\$	
000000006	OF	20	50	E8 000C		BLBS	STA	TUS, 6\$	
		20	53 54 63 50 61 8F 03	DD 000D0)	PUSHL MOVZWL CALLS BLBS PUSHAB PUSHL	#1	[he3c]2	
	6A	007E1112	8F	DD 000D2 FB 000D8		CALLS	#82	51906 LIB\$SIGNAL	
			6E	04 000DE	65:	RET TSTL BNEQ		RT_MSGNUM	1053
	6E		07	12 000DE		BNEQ	88	START_MSGNUM	1054
	-		6E 07 01 02 6E	11 000E	75.	BRB	85	RT_MSGNUM	1048
			OL	94 000E		CEME	JIM	1 _ 110 011011	, 1030

MA

MAILSCMDS V04-000	VAX/VMS	PERSONAL MAIL	UTILITY	COMMANDS	D 8 16-Sep-1984 00:47:25 VAX-11 Bliss-32 V4.0-742 Page 14-Sep-1984 12:42:16 DISK\$VMSMASTER:[MAIL.SRC]CMD5.B32;1	(16)
				04 AE	D4 000E7 8\$: CLRL RO B5 000E9 TSTW FOLDER_DESC D6 000EC BEQL 9\$ INCL RO BF 000F0 9\$: EXTZY #3, #1, MAIL\$GL_FLAGS+1, R2 CA 000F6 BICL2 RO, R2 CLRL RO	1059
52	01	A6	01 52	50 03	13 000EC BEQL 9\$ 0 D6 000EE INCL RO 0 EF 000F0 9\$: EXTZY #3, #1, MAIL\$GL_FLAGS+1, R2 0 CA 000F6 BICL2 RO, R2 0 D4 000F9 CLRL RO	
			25	50 64 02	D4 000F9 CLRL RO D5 000FB TSTL SELECT_DATA 13 000FD BEQL 10\$	1060
			52	64 02 50 50 52 52	13 000FD	
			52 06 65 16 7B	52 00 50	E 9 00107 BLBC NEW_FILE, 12\$ FB 0010A CALLS #0, MAIL SOPEN_IF E 9 0010D 118: BLBC STATUS, 14\$	1062
			7B 04	66 52 67	E9 0010D 118: BLBC STATUS, 148 E9 00110 128: BLBC MAIL\$GL FLAGS, 22\$ E8 00113 BLBS NEW_FILE, 13\$	1063 1065 1066
				10	D5 00116 TSTL MAIESL_NMSG 0 12 00118 BNEQ 15\$	1066
		00000000G	00 01	08 AE 02 50	13 000EC	1068
			•	4.77		1069
			007	E804A 8F	DS 0012A 158: TSTL MAIL\$L_NMSG B 12 0012C BNEQ 16\$ DD 0012E PUSHL #8290378 11 00134 BRB 24\$ D5 00136 16\$: TSTL START_MSGNUM	1070
				6E	11 00134 BRB 24\$ D5 00136 16\$: TSTL START_MSGNUM 12 00138 BNEQ 17\$	1071
			34 01	52 68	E8 0013A BLBS NEW FILE, 20\$ D1 0013D CMPL MAIC\$L_MSG_NUM, #1	1072 1073
		51	67 000 51 50 51	67 08 68 68 68 10 52 68 27 00000G 08 68 50	D5 00136 16\$: TSTL START_MSGNUM 12 00138 BNEQ 17\$ E8 0013A BLBS NEW_FILE, 20\$ D1 0013D CMPL MAIL\$L_MSG_NUM, N1 15 00140 BLEQ 20\$ C3 00142 SUBL3 MAIL\$L_OUTLINES, MAIL\$L_NMSG, R1 C0 0014A ADDL2 N8, R1 D0 0014D MOVL MAIL\$L_MSG_NUM, R0 D1 00150 CMPL R0, R1 14 00153 BGTR 18\$	1076
		51	67 000 51 50 51	00000G 00 08 6E 50	BRB 19\$ 0 C3 00157 17\$: SUBL3 MAIL\$L_OUTLINES, MAIL\$L_NMSG, R1 0 0015F ADDL2 #8, R1	1075 1078
			50	03 51 50	D1 00165 CMPL RO, RT 15 00168 BLEQ 19\$ D0 0016A 18\$: MOVL R1, R0 D5 0016D 19\$: ISTL R0 14 0016F BGTR 21\$ D0 00171 20\$: MOVL #1, R0	1077
			50 6E	01 50 01	D5 0016D 19\$: TSTL R0 14 0016F BGTR 21\$ D0 00171 20\$: MOVL #1, R0 D0 00174 21\$: MOVL R0, START_MSGNUM DD 00177 PUSHL #1	1080
		00000000G	00	08 AE 03 50	DD 00177 PUSHL #1 DD 00179 PUSHL #1 DD 0017B PUSHL START_MSGNUM FB 0017E CALLS #3, MAIL\$FIND_I_MSG	
			00 37 7E	FD A4 2A 64	FB 0017E	1081
				64	11 0018C BRB 26\$ 05 0018E 22\$: TSTL SELECT_DATA	1084

MAILSCMDS VO4-000	VAX/VMS PERSONAL MAIL	UTILITY COMMANDS	E 8 16-Sep-1984 00:47:25 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:42:16 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;1	Page 4. (16
	00000000G 00000000G FE	00 09 09 7	OC 12 00190 BNEQ 23\$ AE B5 00192 TSTW FOLDER_DESC 07 12 00195 BNEQ 23\$ 53 E8 00197 BLBS START FLAG, 23\$ A4 E9 0019A BLBC DIRFUEL FLAG, 25\$ BF DD 0019E 23\$: PUSHL #8290474 01 FB 001A4 24\$: CALLS #1, LIB\$SIGNAL 04 001A7 RET 05 DD 001A8 25\$: PUSHL NEW_FILE 01 DD 001AA PUSHL #1 02 FB 001AC CALLS #2, MAIL\$FIND_MSG 05 E9 001B3 BLBC R0, 27\$ 7E D4 001B8 26\$: CALLS #1 MAIL\$DIRECTORY	108 108 108 109 109 109 109
	FC	50 0	01 90 001BF 27\$: MOVB #1, DIR MODE 00 E9 001C3 BLBC MAIL\$L MSG STS, 28\$ 01 90 001CA MOVB #1, DIR_FLAG 01 DO 001CE 28\$: MOVL #1, RO 04 001D1 RET	

; Routine Size: 466 bytes, Routine Base: \$CODE\$ + 097E

; 969 1099 1

```
8
MAILSCMDS
                                                                                                   16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                        VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                                                                                                                                        VAX-11 Bliss-32 V4.0-742
V04-000
                                                                                                                                        DISK$VMSMASTER: [MAIL.SRC]CMDS.B32:1
                        GLOBAL ROUTINE MAILSCMD_SELECT =
                                       FUNCTIONAL DESCRIPTION:
                                                 Select new messages, tell how many were selected.
                                     BEGIN
                                     LOCAL
    980
                                           FOLDER_DESC : $BBLOCK[DSC$C_S_BLN],
                                           NEW_FICE;
                                    INIT_SDESC(FOLDER_DESC);
IF CEISGET_VALUE(SD_FOLDER_NAME,DYN_DESC_3)
THEN BEGIN
    984
985
                                          FOLDER_DESC[DSC$W_LENGTH] = .DYN_DESC_3[DSC$W_LENGTH];
FOLDER_DESC[DSC$A_POINTER] = .DYN_DESC_3[DSC$A_POINTER];
IF_ERR(CHECK_FOLDER(FOLDER_DESC);
RETURN .STATUS);
    986
987
    988
                        1118
    989
    990
                     P 1120
P 1121
1122
1123
1124
1125
1126
1127
1128
1129
1130
                                    INIT SELECT DATA();
IF_ERR(PARSE_SELECTION_QUALS();,
RETURN .STATUS);
    991
    992
    993
    994
                                    IF .SELECT_FLAGS[QUAL_NEW]
AND NOT .MAILSGL_FLAGS[MAIF_V_DFMSG]
THEN MAILSCLOSE_FILE();
    995
    996
    997
    998
                                    IF (NEW_FILE = NOT .MAIL$GL_FLAGS[MAIF_V_FILOPN]
OR (.FOLDER_DESC[DS($W_LENGTH] NEQ 0)
OR (.SELECT_DATA[0] NEQ 0))
    999
   1000
   1001
                                    OR .MAIL$L NMSG EQL O
THEN IF ERR(MAIL$OPEN IF():
RETURN .STATUS):
IF .MAIL$GL_FLAGS[MAIF_V_ISAM]
                        1131
   1002
                       1132
1133
1134
1135
1136
1137
1138
   1003
   1004
   1005
  1006
                                     THEN BEGIN
                                          1007
   1008
   1009
   1010
   1011
                        1140
                                    ELSE SIGNAL (MAILS_NOTISAM);
  1012
                        1141
                        1142
                                     RETURN TRUE
  1014
                                    END;
                                                                                    007C
                                                                                            00000
                                                                                                                   .ENTRY
                                                                                                                                                                                                     1100
                                                                                                                  MOVAB
```

```
007C 00000
56 00000000G 00 9E 00002
55 00000000G 00 9E 00009
54 0000000G 00 9E 00010
55 00000000G 00 9E 00010
56 00000000G 00 9E 00010
57 00000000G 00 9E 00010
58 00000000 00 9E 00010
59 000010
50 0000000 00 9E 00010
50 000000 00 9E 00010
50 00000 00 9E 00010
50 000000 00 9E 00010
50 00000 00 9E 00010
50 00000 00 9E 00010
50 000000 00 9E 00010
50 00000 00 9E 00010
50 00000 00 9E 00010
50 000000 00 9E 00010
50 00000 00 9E 00010
50 00000 00 9E 00010
50 000000 00 9E 00010
50 00000 00 9E 00010
50 00000 00 9E 00010
50 000000 00 9E 00010
50 00000 00 9E 00010
50 00000 00 9E 00010
50 000000 00 9E 00010
50 00000 00 9E 00010
50 00000 00 9E 00010
50 000000 00 9E 00010
50 00000 00 9E 00010
50 00000 00 9E 00010
50 000000 00 9E 00010
50 00000 00 9E 00010
50 00000 00 9E 00010
50 000000 00 9E 00010
50 00000 00 9E 00010
50 00000 00 9E 00010
50 000000 00 9E 00010
50 00000 00 9E 00010
50 00000 00 9E 00010
50 000000 00 9E 00010
50 00000 00 9E 00010
50 00000 00 9E 00010
50 000000 00 9E 00010
50 00000 00 9E 00010
50 00000 00 9E 00010
50 000000 00 9E 00010
50 00000 00000 00 9E 00010
50 00000 00 9E 000000
50 00000 00 9E 000000
50 00000 00 9E 000000
50 00000 00 9E 0000000
50 00000 000000
50 00000 000000
50 000000 000000
50 000000 00
```

VQ

MAILSCMDS VO4-000	VAX/VMS	PERSONAL MAIL	UTILITY	COMMANDS	1	G 8 6-Sep-1 4-Sep-1	984 00:47: 984 12:42:	:25 :16	VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;1	Page 44
		000000006	00 13 6E AE	34 A 38 A	DD 00028 FB 0002A E9 00031 B0 00034		PUSHL CALLS BLBC MOVU MOVL PUSHL CALLS BLBC CALLS CALLS BLBC BBC	RO.	CLISGET_VALUE 18 DESC_3, FOLDER_DESC DESC_3+4, FOLDER_DESC+4	: : 1115 : 1116 : 1118
		F819	CF 79	5	FB 0003F		PUSHL			1118
		F705 F71B	CF CF	000	PB 00040 FB 00040 FB 00040 FB 00051	15:	CALLS	#0. #0.	INIT SELECT DATA PARSE SELECTION QUALS	1120
		00 07 000000006	60 62 A4 00	00005605	E9 00051 E1 00054 E0 00058 FB 00050 D4 00064	28:	BBS	#4, #4, #0, R0	CHECK FOLDER US. 95 INIT SELECT DATA PARSE SELECTION_QUALS US. 95 SELECT FLAGS. 25 MAIL\$GE FLAGS+1. 25 MAIL\$CLOSE_FILE	1124 1125 1126 1129
				6	B5 00066 2 13 00068 0 06 0006A		CLRL TSTW BEQL INCL EXTZY BICLS	FOLD 35 RO	ER_DESC	
5	01	50	01 51	5 6	5 EF 0006C CB 00072 D4 00076 D5 00078	3\$:	EXTZV BICLS CLRL TSTL	#3. RO. R1	#1, MAIL\$GL_FLAGS+1, R1 R1, R0 CT_DATA	1130
			50 50 04	55556	D6 0007C CA 0007E D2 00081 D E8 00084	48:	CLRL TSTL BEQL INCL BICL2 MCOML BLBS TSTL BNEQ CALLS	R1 R1, R0,	RO NEW_FILE FILE, 5\$ \$L_NMSG	
				6	D5 00087		TSTL	MAIL 68	\$L_NMSG	1131
		F6A4	CF 2D	01	FB 00088	58:	CALLS	#O.	MAILSOPEN_IF US, 9\$	1133
			ÎĒ	5	E9 00093 DD 00096	6\$:	BLBC BLBC PUSHL PUSHAB	MAIL R2	SGL_FLAGS, /\$	1134 1137
		000000006	00 1B	04 AI			PUSHAB CALLS BLBC PUSHL	FOLD #2 STAT	ER_DESC MAIL\$SELECT_MSGS US, 9\$	
				6	DD 000A7		PUSHL	#1	ar was	1138
			66 007E	0	FB 000AF		PUSHL	#830 #3,	6307 LIB\$SIGNAL	
			0076	80AA 8	11 000B2 DD 000B4	78:	BRB PUSHL	8\$ #829	0474	1134 1140
			50	0	FB 000BA D0 000BD 04 000C0	8 \$:	CALLS MOVL RET	#1;	LIB\$SIGNAL RO	1142

; Routine Size: 193 bytes, Routine Base: \$CODE\$ + OB50

```
MAILSCMDS
VO4-000
                        VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                                                                                                 16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                                                                                                                                     VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]CMDS.B32;1
                    1145
1146
1147
1148
1148
1153
1155
1155
1155
1156
1166
1167
1177
1178
1177
1178
1177
1178
1179
                                    GLOBAL ROUTINE MAILSCMD_MOVE =
  FUNCTIONAL DESCRIPTION:
                                                This is the MOVE command action routine and is called to move
                                                the current message from one isam folder to another in the same file.
                                       INPUTS:
                                                Current message context.
                                       OUTPUTS:
                                                Current message is filed in the specified folder
                                    BEGIN
                                    LOCAL
                                         STATUS,
SAVE_MSGNUM,
CONFIRM_FLAG,
COPY_FLAGS: $BBLOCK[4];
                                   COPY_FLAGS = 0;
IF NOT .MAILSGL_FLAGS[MAIF_V_FILOPN]
THEN RETURN SIGNAL (MAILS_NOTREADIN);
   1039
   1040
1041
1042
1043
                                    IF NOT .MAILSGL_FLAGS[MAIF V_ISAM] THEN RETURN SIGNAL (MAI[$_NOTISAM);
   1044
   1045
   1046
                                    1047
  1048
                                    CONFIRM_FLAG = CLISPRESENT(SD_CONFIRM) AND 1;
   1050
   1051
                                    1180
1181
1182
1183
1184
1185
1186
1187
1188
1189
1190
1191
1193
1194
1197
1198
1199
1200
   1052
   1053
                                   COPY_FLAGS[MCR_V_ALL] = CLI$PRESENT(SD_ALL) AND 1;
IF NOT .COPY_FLAGS[MCR_V_ALL]
AND .MAI[$L_CURMSG_EQL 0
THEN RETURN_SIGNAL(MAIL$_NOTREADIN);
   1054
   1055
  1056
   1057
   1058
                                   IF .COPY_FLAGS[MCR_V_ALL]
AND .MAIL$L_NMSG_EQL 0
THEN RETURN SIGNAL (MAIL$ NOMSGS);
   1059
  1060
   1061
1062
1063
                                    CLISGET_VALUE(SD_FILE,DYN_DESC_2);
                                    IF .DYN_DESC_2[DSC$W_LENGTH] EQL O THEN BEGIN
   1064
   1065
   1066
1067
1068
1069
1070
                                             Move to a folder in the same file
                                          IF NOT .COPY FLAGS[MCR V ALL]
THEN MAI[SFILE I MSGTDYN DESC, .CONFIRM FLAG)
   1071
                                                ELSE BEGIN
  1072
                                                      SAVE_MSGNUM = .MAIL$L_MSG_NUM;
```

MA

```
MA
```

```
8
MAILSCMDS
VO4-000
                                                                                                                            16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                               VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                                                                                                                                                                           VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]CMDS.B32;1
                                                                                                                                                                                                                                                        (18)
   1073
1074
1075
1076
1077
1078
1079
1081
1083
1084
1085
1086
1087
1090
1091
1092
1093
                                                                      IF .MAIL$L_NMSG GTRU 0
THEN INCRU I FROM 1 TO .MAIL$L_NMSG
                               DO BEGIN
                                                                             MAILSL_CURMSG = .MAILSL_MSGTBL[.I-1];

IF .MAILSL_CURMSG NEQ 0

THEN BEGIN

MAILSL_MSG_NUM = .I;

STATUS = MXILSFILE I MSG(DYN_DESC,.CONFIRM_FLAG);

IF .STATUS EQL_RMSS_RNF

THEN EXITLOOP;
                                                                                      END:
                                                                     END;

MAIL$L MSG NUM = .SAVE_MSGNUM;

IF .SAVE_MSGNUM NEQ 0

THEN MAIL$L_CURMSG = .MAIL$L_MSGTBL[.SAVE_MSGNUM-1];
                                                                      END:
                                                      END
                                               ELSE BEGIN
                                                          Move to a folder in another file.
    1094
                                                       IF .CONFIRM_FLAG
                                                      THEN COPY FLAGS[MCR v CONFNEW] = TRUE;

COPY FLAGS[MCR v DELMSG] = TRUE;

MAILSCOPY MSGSTDYN_DESC_2, DYN_DESC,.COPY_FLAGS, TELL_CREATED);
    1095
    1096
    1097
    1098
                                                       END:
   1099
.....
                                               RETURN TRUE
   1101
                                              END:
```

56

				0	FFC	00000		.ENTRY	MAIL\$CMD_MOVE, Save R2,R3,R4,R5,R6,R7,R8,-	: 1144
		5B 5A 59 58 57	000000006 000000006 000000000 F464 00000000°	00 00 00 CF 00 55	9E 9E 9E 9E	00002 00009 00010 00017 0001C		MOVAB MOVAB MOVAB MOVAB	R9,R10,RT1 CLISGET VALUE, R11 MAILSL_MSG_NUM, R10 MAILSL_CURMSG, R9 SD_FOLDER_NAME, R8 DYN_DESC, R7	
08	000000006	00	007E8022	03 8F 5D	EO DD	00023 00025 00020	15:	CLRL BBS PUSHL	#3, MAIL\$GL_FLAGS+1, 2\$ #8290338	1167 1168 1169
		08	00000000G 007E80AA	00 8F	E8	0003C	2\$:	BRB BLBS PUSHL	7\$ MAIL\$GL FLAGS, 3\$ #8290474	1171 1172
		68 16		578205	DD DD FB E9	00046 00048 0004B	3\$:	BRB PUSHL PUSHL CALLS BLBC PUSHAB	7\$ R7 R8 #2, CLI\$GET_VALUE STATUS, 4\$	1175
50	000000006	00	94	A8 01	9F FB EF	0004E 00051 00058		PUSHAB CALLS EXTZV	SD_CONFIRM #1, CLISPRESENT #0, #1, RO, CONFIRM_FLAG	1177
	F738	CF		57 01	DD FB	0005D 0005F		PUSHL	WO, W1, RO, CONFIRM_FLAG R? W1, CHECK_FOLDER	1180

	VAX/VMS P	ERSO	NAL MAIL	UTI	LITY COMMAN	OS	1	J 8 6-Sep- 4-Sep-	1984 00:47 1984 12:42	2:25	VAX-11 BLiss-32 V4.0-742 DISK\$VMSMASTER:[MAIL.SRC]C	MDS.B32;1 Page 4
				01		50 E			BLBS		S, 58	
55		01 08	0000000G	00 01 55	FF74	C8 91 01 F1 50 F1 01 E1 69 D1	F 00068 B 0006C	58:	PUSHAB CALLS INSV BBS TSTL	SD_AL #1. C RO. # #1. C	L LI\$PRESENT 1, #1, COPY_FLAGS OPY_FLAGS, &\$ L_CURMSG	118 118
		16		55	000000006	AD 1:	0007E 00080 00084	65:	BEQL BBC TSTL BNEQ PUSHL	MAILS	OPY FLAGS, 8\$; 118 118 118
		0	00000006	00	007E804A	00 D: 0E 1: 8F DI 01 FI	00080	75:	PUSHL CALLS RET	#8290	378 18\$SIGNAL	118
				68	08 EC 08	A7 91 A8 91 02 F1 A7 B	ADDOD		PUSHAB PUSHAB CALLS TSTW	DYN DI SD_FI	ESC_2 LE LI\$GET_VALUE	119
		OD		55	00	61 17 01 E0 56 DI	000A6 000A6 000A6		BNEQ BBS PUSHL PUSHL	CONFI	OPY_FLAGS, 9\$ RM_FLAG	119 119 119
		0	0000000G	00		57 DI 02 FI 6E 1	000AE 000B0		CALLS	R7	AILSFILE_I_MSG	
				53 54	000000006	6A DO	y vvvot	9\$:	BRB MOVL MOVL BEQL	MAILS MAILS 138	L_MSG_NUM, SAVE_MSGNUM L_NMSG, R4	120 120
				52		01 DO	000C5 000C8		MOVL BRB	125		120
				51 69	00000000G	17 D	000CA 000D1 000D6	10\$:	MOVL MOVL BEQL	MAIL\$1 -4(R1 11\$	L_MSGTBL, R1)[I], MAIL\$L_CURMSG	120
				6A		52 DC	80000 0 00000		MOVL PUSHL	I MA	IL\$L_MSG_NUM RM_FEAG	120 120 120
		00	0000000G 00182B2	00 8f		57 DE 50 DE	3 000DF		PUSHL CALLS CMPL BEQL	#2, M	AIL\$FILE I_MSG S, #98994	120
				54		52 DC 52 D1 D4 18	000EF	115:	INCL CMPL BLEQU	1 10\$R4		120
				6A 50 69	00000000G FC AC	53 DO	s nonfy		MOVL BEQL MOVL	SAVE_I	MSGNUM, MAIL\$L_MSG_NUM L_MSGTBL, RO)[SAVE_MSGNUM], MAIL\$L_CURMS	121 121 121
					FC AC	1E 11	00107	1/8.	MOVL BRB	145		119
				05 55 55	0100 80 FA22	8F 88	3 0010C 3 00111 00115	158:	BRB BLBC BISW2 BISB2 PUSHAB PUSHL PUSHL	#256, #128, TELL	RM_FLAG, 15\$ COPY_FLAGS COPY_FLAGS CREATED FLAGS	119 122 122 122 122
		0	0000000G	00 50	08	CF 91 55 DC 57 DC A7 91 04 FE 01 DC	0011B 0011D 00120 00127		PUSHL PUSHAB CALLS MOVL RET	DYN DI	ESC 2 AILSCOPY MSGS	122 122

MA

MAILSCMDS VO4-000 MAILSCMDS VO4-000 VAX/VMS PERSONAL MAIL UTILITY COMMANDS

16-Sep-1984 00:47:25

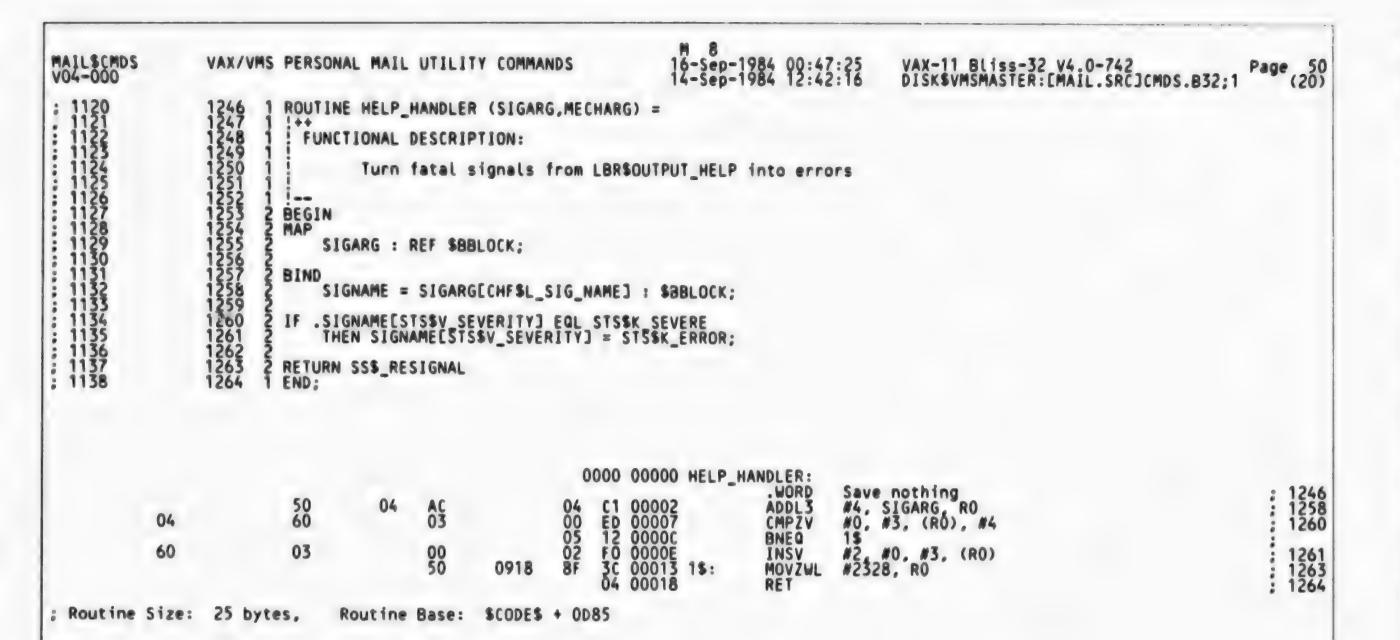
VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[MAIL.SRCJCMDS.B32;1

; Routine Size: 299 bytes, Routine Base: \$CODE\$ + OC11

MA

MAILSCMDS V04-000		VAX/VMS	PER	SONA	L MA	IL I	JTIL	ITY (OMMAI	NDS		1	8 6-Sep-19 4-Sep-19	84 00:47 84 12:42	7:25 VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;	Page (1	49
1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116		1230 1231 1233 1233 1235 1236 1237 1238 1239 1240 1241 1243 1244 1244 1244	BEG	UNCT	IONA Loa LSA N RE	d LI	ESCR: BRSHI PUT I	IPTIOR IF	it ha	as no	it b	een lo					
50 4C 45	48	5F 54	55	50	54	52 55	48 4F		52	42 00000 00000 42 00000	06 00° 40°	00D42 00D44 00D48 00D4C 00D5B	P.ADH: P.ADG: P.ADJ: P.ADI:	.ASCII	2 6 SS P.ADH		
				000	0000	0G	52 (50 00	00000	0000°	00 62 04 01 52 AF AF 03	004 95 13 004 009 97 98 04	00002	15:	ENTRY MOVAB TSTL BEQL MOVL RET PUSHL PUSHAB PUSHAB CALLS RET	MAIL\$A_OUTPUT_HELP, R2	13	230 239 240 242 243 242 245

; Routine Size: 33 bytes, Routine Base: \$CODE\$ + 0D64



MAVO

```
MA
```

```
MAILSCMDS
VO4-000
                          VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                                                                                                          16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                                                                                                                                                 VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]CMDS.B32;1
                          1265
1266
1267
1268
1269
1271
1273
1275
1275
1276
1277
1278
                                        GLOBAL ROUTINE MAILSCMD_HELP =
   1141
   1143
1144
1144
1144
1149
1153
1156
1158
1159
                                          FUNCTIONAL DESCRIPTION:
                                                    This is the HELP command action routine and is called to display help for specified commands and topics.
                                           INPUTS:
                                           OUTPUTS:
                                                     Help for specified topic is displayed on SYS$OUTPUT.
                                       BEGIN
                          1280
                                       BUILTIN
                                              FP:
                                       !Get REST_OF_LINE
                          1284
1285
1286
1287
                                                                                                                       Erase the screen
   1160
1161
1162
1163
1164
1165
1166
1167
1168
1170
1171
1172
1173
                                      1291
1292
1293
1294
1295
1296
1297
1298
1299
                                                                               TREF (HLPSM PROMPT OR HLPSM PROCESS OR
                                                                                            HLPSM_GROUP OR HLPSM_SYSTEM OR HLPSM_HELP),
                                                                               MAILSGET_INPUT);
                                       MAILSENABLE_CTRLC();
                                       RETURN TRUE
   1174
                                       END:
                                                                                                   00D9E P.ADL:
00DA6
00DA8 P.ADK:
00DAC
                                                   46 45 48 46 49 41 40
                                                                                                                                       \MAILHELP\
                                                                                                                          .ASCII
                                                                                                                           .BLKB
                                                                                  80000000
                                                                                                                          . LONG
                                                                                                                           .ADDRESS P.ADL
                                                                                          000C 00000

9E 00002

9E 00009

4 C2 0000E

BB 00011

2 FB 00013

0 FB 0001A

0 FB 00021

0 E9 00025

0 FB 00028

9E 00026
                                                                                                                                       MAIL & CMD_HELP, Save R2,R3
COMMAND_DESC, R3
SD_HELPKEYS, R2
                                                                                                                           .ENTRY
                                                                                                                                                                                                                   1265
                                                                     00000000°
F3FB
                                                                                        00
CF
04
02
00
00
50
                                                                                                                          MOVAB
                                                                                                                          MOVAB
SUBL 2
                                                                                                                                       M4 SP

M^M<R2,R3>

M2. CLISGET VALUE

M0. MAILSCMD ERASE

M0. MAILSLOAD LBRSHR
                                                                                                                          PUSHR
                                                                                                                                                                                                                    1283
                                              000000006
                                                                00
00
AF
37
                                                                                                                          CALLS
                                                                                                                          CALLS
CALLS
BLBC
                                                                                                                                                                                                                    1284
1286
                                                                                                                                       #0 MAILSLOAD LBRSHR
STATUS 18
#0, MAILSDISABLE CTRLC
HELP HANDLER, (FP)
MAILSA OUTPUT HELP, RO
                                                                00
                                              0000000G
                                                                                                                          CALLS
                                                                     00000000°
                                                                                                                          MOVAB
                                                                                        00
                                                                                                                          MOVL
```

MAILSCMDS VO4-000	VAX/VMS PERSONAL MAIL	UTILITY COMMANDS	B 9 16-Sep-1984 00:47:25 VAX-11 Bliss-32 V4.0-742 Pag 14-Sep-1984 12:42:16 DISK\$VMSMASTER:[MAIL.SRCJCMDS.B32;1	e 52 (21)
	04	AE 00000000G 00 2F 08F0 C2 53	9F 0003A PUSHAB MAIL\$GET INPUT 00 00040 MOVL #47, 4(SP) 9F 00044 PUSHAB 4(SP) 9F 00047 PUSHAB P.ADK DD 0004B PUSHL R3	1293 1292 1291 1290
	0000000G	000000000 7Ē 00 00 00 50	00 00040	1297 1298 1299

; Routine Size: 99 bytes, Routine Base: \$CODE\$ + ODBO

MA

			07	7FC 00000	.ENTRY	MAIL\$CMD_PRINT, Save R2,R3,R4,R5,R6,R7,R8,-	: 1300
		5A 000000006 59 000000006 58 000000006 57 000000006 56 000000006 55 F280 54 00000000'	00000000000000000000000000000000000000	9E 00002 9E 00009 9E 00010 9E 00017 9E 0001E 9E 00025 9E 0002A C2 00031 D4 00034 DD 00036 FB 00038 F0 00040 FB 00043 F0 00040 FB 00045 FD 00050 FB 00052 04 00055 9F 00056 FB 00065 FB 00065 FB 00065 FB 00067 FB 00067 FB 00067 FB 00067	MOVAB MOVAB MOVAB MOVAB MOVAB SUBL2 CLRL PUSHL	MAILSCMD_PRINT, Save R2,R3,R4,R5,R6,R7,R8,- R9,R10 CLISGET VALUE, R10 LIB\$SIGNAL, R9 MAIL\$GL FLAGS, R8 MAIL\$PRINT, R7 CLI\$PRESENT, R6 SD NOTIFY, R5 COMMAND_DESC, R4 #4, SP PRO_FLAGS R5	1701
53	01	66 00	01	DD 00036 FB 00038 F0 0003B	PUSHL	R5 W1, CLISPRESENT	1321
53	01	66 01 08	50 A5 01 50	9F 00040 FB 00043 FO 00046 E9 0004B DD 0004E	CALLS INSV PUSHAB CALLS INSV	#1, CLISPRESENT RO, #0, #1, PRQ_FLAGS SD_PRINT #1, CLISPRESENT RO, #1, #1, PRQ_FLAGS RO, 1\$	1323
		67	50 53 7E 03	DD 0004E 7C 00050 FB 00052	CALLS INSV BLBC PUSHL CLRQ CALLS	RO, W1, W1, PRO_FLAGS RO, 18 PRO_FLAGS -(SP) W3, MAIL\$PRINT	1324
53	01	FF18 66 02 1A	C5 01 50	04 00055 9F 00056 1\$: FB 0005A FO 0005D E8 00062 E9 00065	RET PUSHAB CALLS INSV BLBS	SD_ALL #1, CLISPRESENT RO, #2, #1, PRQ_FLAGS RO, 4\$	1326
	0000000G	09	50 68 00	E9 00065 FB 00068 11 0006F	CALLS	MAILSGL FLAGS, 2\$ #0, MAI[\$REWIND_I_MSG 3\$	1331
	000000006	00 21	07 00 50 50	FR 00078 35.	BRB CALLS BLBS PUSHL	#0. MAILSREWIND_MSG STATUS, 8\$ STATUS 7\$	
		08 000000006	19 68 00	DD 0007B 11 0007D E9 0007F 4\$: D5 00082 11 00088	BRB BLBC TSTL	MAIL\$GL_FLAGS, 5\$ MAIL\$L_NMSG	1334 1335
		00000000G	06 00	D5 0308A 5\$:	BRB TSTL BNEQ	6\$ MAIL\$L_MSGBUFSIZ 8\$	1336
		69 007E804A	0A 8F 01	D5 0308A 5\$: 12 00090 6\$: DD 00092 FB 00098 7\$: 04 00098 D0 0009C 8\$:	PUSHL	#8290378 #1, LIB\$SIGNAL	1337
		6E	01 54	04 00098 D0 00096 8\$:	RET MOVL PUSHL PUSHAB	M1. N_COPIES	1340 1341
		6A 12	02 50	DO 0009C 8\$: DD 0009F 9F 000A1 FB 000A5 E9 000A8	PUSHAB CALLS BLBC	SD_COPIES #2, CLISGET_VALUE RO, 9\$ SP	
	000000006	7E 00 0E 52	5E A4 64 03 50	DD 000AB DD 000AD 3C 000B0	CALLS BLBC PUSHL PUSHL MOVZWL CALLS BLBC MOVL	SP COMMAND_DESC+4 COMMAND_DESC, -(SP) #3, LIB\$CVT_DTB STATUS, 10\$ N_COPIES, R2 10\$ R2, #255	1344
			6E 09 52	FB 000B3 E9 000BA D0 000BD 9\$: 13 000C0 D1 000C2	MOVL BEQL CMPL	N COPIES, R2	1346
	000000FF	8F	52	D1 000C2	CMPL	R2, #255	1347

MA VO

MAILSCMDS VO4-000	VAX/VMS PERSONA	AL MAIL UTILITY COMM	NDS	E 9 16-Sep-1984 00:47:25 VAX-11 Bliss-32 V4.0-742 P2 14-Sep-1984 12:42:16 DISK\$VMSMASTER:[MAIL.SRC]CMD5.B32;1	age 5
		69 007E1112 69 50	0E41083 54520430 54520430	04 000D8 RET 64 DD 000D9 11\$: PUSHL R4 65 9F 000DB PUSHAB SD_QUEUE 62 FB 000DE CALLS #2, CLI\$GET_VALUE 64 DD 000E3 PUSHR #^M <r2,r3> 64 DD 000E3 PUSHL R4 63 FB 000E5 CALLS #3, MAIL\$PRINT</r2,r3>	1348 1350 1351 1351
; Routine Siz	e: 236 bytes,	Routine Base: \$CODE	5 +	0E13	

```
MAILSCHDS
                                                                                                      16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                         VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                                                                                                                                             VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]CMDS.B32;1
V04-000
  1233456789012334424456789012355456789012364567890
                         GLOBAL ROUTINE MAILSCMD_NEXT =
                                         FUNCTIONAL DESCRIPTION:
                                                   This is the NEXT command action routine and is called to display
                                                   the text of the next message.
                                         INPUTS:
                                                   Current message context.
                                         OUTPUTS:
                                                   Next message text is displayed on SYS$OUTPUT.
                                     BEGIN
                                     LOCAL
                                            EDIT_FLAG;
                                     MAILSCLR DIR FLAG();
EDIT FLAG = CLISPRESENT(SD EDIT);
IF .MAILSGL FLAGS[MAIF_V_ISAM]
                                      THEN BEGIN
                                           IF MAIL$FIND I MSG(0)
THEN (MAIL$REWIND I MSG(); READ MESSAGE(.EDIT_FLAG))
ELSE IF .MAIL$L MSG_STS EQL MAIL$ NOMOREMSG
OR .MAIL$L MSG_STS EQL MAIL$ NOMSGS
THEN SIGNAE(.MAIL$L_MSG_STS);
                         1380
1381
1382
1383
1384
1385
                                            END
                                     ELSE
                                      IF MAIL$FIND_MSG(0)
                                                                                                                   ! find next message
                         1386
1387
1388
1389
1390
1391
1392
1393
                                     THEN
                                                  READ_MESSAGE(.EDIT_FLAG)
                                                                                                                   ! Display it
                                     ELSE
                                                  IF .MAIL$L_MSG_STS EQL MAIL$_NOMOREMSG
                                                  THEN
                                                               SIGNAL (MAIL$_NOMOREMSG):
                                      RETURN TRUE
                                     END:
                                                                                                                                  MAILSCHD NEXT, Save R2,R3,R4
MAILSL MSG STS, R4
MAILSCER DIR FLAG, R3
WO, MAILSCLR_DIR_FLAG
                                                                                        001C 00000
                                                                                                                       .ENTRY
                                                                                                                                                                                                            1355
                                                                                               00002
00009
0000E
00011
00015
0001F
                                                                                          9E
9E
FB
                                                                  0000000G
                                                                                    MOVAB
                                                                                                                      MOVAB
CALLS
PUSHAB
                                                                         F4FF
                                                                                                                                                                                                             1374
1375
```

F294

00 52 2E 00000000G

0000000G

00000000G

000000006

FB 009

SD_EDIT #1, CLISPRESENT

-(SP)

EDIT FLAG

MAILSGL_FLAGS, 38

#1, MAILSFIND_I_MSG

RO. 15 #0, MAIL\$REWIND_I_MSG

CALLS

MOVL

BLBC

CLRL

BLBC

CALLS BRB

V

1376 1378

1379

MAILSCMDS VO4-000	VAX/VMS PERSONAL MAIL	UTILITY	COMMANDS		G 9 16-Sep- 14-Sep-	1984 00:47 1984 12:42	7:25 VAX 2:16 DIS	-11 Bliss-32 v4.0-742 K\$VMSMASTER:[MAIL.SRC]CMDS.B32;1	Page 5
	007E8042	50 8F	64 50 09	DO 0003 D1 0003	B 18:	MOVL	MAILSL MS	G STS. RO	: 138
	007E804A	8F	99 50 2F	13 0004 01 0004 12 0004	5 7 F	MOVL CMPL BEQL CMPL BNEQ PUSHL	2\$ RO, #8290	378	138
			50 23	00 0005 11 0005	0 28:	PUSHL	RO 6\$		138
	00000000G	00	7E 01 50	FB 0005	4 38: 6	BRB CLRL CALLS BLBC PUSHL CALLS	-(SP) #1, MAIL\$	FIND_MSG	138
	85	A3	52 01	DD 0006 FB 0006	0 48:	PUSHL	RO. 58 EDIT FLAG #1, READ_ 78	MESSAGE	138
	007E8042	8F	64	D1 0006	8 58:	BRB CMPL BNEO	MAILSL_MS	G_STS, #8290370	138
	00000000G	00 50	8642 8F 01 01	DD 0007 FB 0007 D0 0007	1 7 6\$: E 7\$:	BNEQ PUSHL CALLS MOVL	#8290370 #1, LIB\$S #1, RO	IGNAL	139
		70	01	04 0008	1	RET	wi, ny		139 139

; Routine Size: 130 bytes, Routine Base: \$CODE\$ + OEFF

```
VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]CMDS.B32;1
```

VC

```
VAX/VMS PERSONAL MAIL UTILITY COMMANDS
1394
1396
1396
1397
1399
1401
1402
1403
1404
1406
1407
1416
1417
1418
1418
1419
1420
```

GLOBAL ROUTINE MAILSCMD_PURGE = FUNCTIONAL DESCRIPTION:

Delete all messages in the wastebasket folder, or if PURGE/RECLAIM is specified, reclaim deleted space in the ISAM file

H 9 16-Sep-1984 00:47:25 14-Sep-1984 12:42:16

BEGIN

MAILSCMDS VO4-000

IF_ERR(MAIL\$OPEN_IF();
RETURN .STATUS);

IF NOT .MAIL\$GL_FLAGS[MAIF V_ISAM] THEN RETURN SIGNAL (MAIL\$_NOTISAM);

IF CLISPRESENT(SD_RECLAIM) THEN BEGIN

MAIL\$GL_FLAGS[MAIF_V_RECL] = 1;
MAIL\$EMPTY_WASTEBASKET();
MAIL\$GL_FLAGS[MAIF_V_RECL] = 0;
MAIL\$RECLAIM(CLI\$PRESENT(SD_STATISTICS));

ELSE SIGNAL (MAILS_DELMSGS, 1, MAILSEMPTY_WASTEBASKET());

RETURN TRUE END:

	565555555555555555555555555555555555555	00000000G 00000000G 00000000G F 2 E 8	00 00 00 CF 00	9E 9E 9E 9E 9E	00000 00002 00009 00010 00017 00010 00023		ENTRY MOVAB MOVAB MOVAB MOVAB MOVAB CALLS	MAIL\$CMD_PURGE, Save R2,R3,R4,R5,R6 MAIL\$EMPTY_WASTEBASKET, R6 CLI\$PRESENT, R5 LIB\$SIGNAL, R4 MAIL\$OPEN_IF, R3 MAIL\$GL_FCAGS, R2 #0, MAIC\$OPEN_IF STATUS, 4\$	1394
	0A 64	007E80AA	62 8F 01	E9 E8 DB FB	00026 00029 00020 00032 00035		CALLS BLBC BLBS PUSHL CALLS RET	MAILSGL FLAGS, 18 #8290474 #1, LIB\$SIGNAL	1407 1408
	65	F19D	CF 01	9F FB	00036 0003A 0003D	15:	PUSHAB	SD_RECLAIM #1, CLISPRESENT	1410
	65 1D 62 66	80	8F	88 FB	00040		BLBC BISB2 CALLS BICB2	RO, 2\$ #128, MAIL\$GL FLAGS #0, MAIL\$EMPTY WASTEBASKET #128, MAIL\$GL_FLAGS SD_STATISTICS	1412
	65	80 F 19C	CF O1	8A 9F FB	00047 0004B 0004F		PUSHAB	WI, LLIBPRESENI	1414
000000006	00		01	FB 11	00052 00054 0005B		PUSHL CALLS BRB	RO W1, MAILSRECLAIM 3\$	1410
	66		50	FB	0005D 00060	28:	CALLS	NO. MAILSEMPTY_WASTEBASKET	1417

```
VC
```

1444

1446

```
MAILSCHDS
VO4-000
                                                                                                                       16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                              VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                                                                                                                                                                   VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]CMDS.B32;1
   GLOBAL ROUTINE MAILSCMD_COMPRESS =
                              FUNCTIONAL DESCRIPTION:
                                                           Process the COMPRESS command.
                                            BEGIN
                                            LOCAL
                                                   FLAGS : BITVECTOR[32],
DESC : VECTOR[2,LONG],
                                                    STATUS:
                                            DESC[0] = DESC[1] = 0:
                                               If a file was specified, use that. Else, if a file is open, use that. Else, open the default file.
                             1438
                                            IF CLISPRESENT(SD_FILE)
                              1440
                                            THEN BEGIN
                                                   MAILSCLOSE FILE();
CLISGET VACUE(SD FILE.DYN DESC);
IF_ERR(MAILSOPEN FILE(DYN DESC);,
RETURN .STATUS);
                              1441
                             1442
                             1444
                                           ELSE IF NOT .MAIL$GL FLAGS[MAIF V FILOPN]
THEN IF_ERR(MAIL$OPEN_FILE(DESC);,
RETURN .STATUS);
IF NOT .MAIL$GL_FLAGS[MAIF V ISAM]
THEN RETURN SIGNAL(MAIL$_NOTISAM);
                             1446
                             1450
1451
1452
1453
1454
1455
1456
                                           CLISGET_VALUE(SD_OUTPUT,DYN_DESC_2);
!CLISGET_VALUE(SD_FDL,DYN_DESC_3);
FLAGS = 0;
                                            MAILSCOMPRESS(.FLAGS,DYN_DESC_2,DESC);
                                            RETURN TRUE
                                            END:
                                                                                                    001C 00000

9E 00002

F 9E 00006

7C 00015

3 DD 00017

1 FB 00019

0 E9 00020

FB 00023

DD 0002A

DD 0002C

FB 0002E

DD 00031

A 11 00033
                                                                                                                                                       MAIL$CMD COMPRESS, Save R2,R3,R4
CLI$GET_VALUE, R4
SD_FILE, R3
DYN_DESC, R2
DESC
R3
                                                                                                                                         .ENTRY
                                                                                                                                                                                                                                            1421
                                                                        54 000000006
53 F07D
52 00000000°
                                                                                                  00F0F310002322A3
                                                                                                                                         MOVAB
                                                                                                                                         MOVAB
                                                                                                                                        MOVAB
                                                                                                                                        CLRQ
                                                                                                                                                                                                                                            1434
                                                                                                                                        PUSHL
                                                                                                                                                              CLISPRESENT
                                                    000000006
                                                                                                                                        CALLS
BLBC
                                                                                                                                                       #1.
                                                    0000000G
                                                                        00
                                                                                                                                         CALLS
                                                                                                                                                              MAILSCLOSE_FILE
                                                                                                                                        PUSHL
```

DD 11

64

OC 00000000G

PUSHL CALLS PUSHL

BRB

BBS

CLISGET_VALUE

#3, MAIL\$GL_FLAGS+1, 3\$

MAILSCMDS VO4-000	VAX/VMS PERSONAL MAIL	UTILITY (COMMANDS	1	(9 5-Sep- 4-Sep-	1984 00:47 1984 12:42	2:25 VAX-11 Bliss-32 V4.0-742 2:16 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;1	Page 61
	000000006	00 32 0E 00000	5E 01 50	DD 0003D FB 0003F E9 00046 FB 00049	28: 38:	PUSHL CALLS BLBC BLBS	#1 MAILSOPEN_FILE STATUS, 5\$ MAILSGUELAGS, 4\$	1448
	00000000G	00 00000 007E8	86 01	DD 00050 FB 00056 04 0005D		BLBC BLBS PUSHL CALLS RET	MAILSGL FLAGS, 48 M8290474 M1, LIBSSIGNAL	1449
		64	08 A2 080 C3 02 50	9F 0005E 9F 00061 FB 00065 D4 00068	45:	PUSHAB PUSHAB CALLS CLRL PUSHL PUSHAB PUSHL CALLS	DYN_DESC_2 SD_DUTPUT #2, CLI\$GET_VALUE FLAGS	145
	00000000	00	08 A2	DD 0006A 9F 0006C DD 0006F		PUSHL PUSHAB PUSHL	SP DYN_DESC_2 FLAGS #3, MAIL\$COMPRESS	1454
	00000000G	00 50	01	00 00078 04 0007B	55:	MOVL RET	#1, RO	1456

; Routine Size: 124 bytes, Routine Base: \$CODE\$ + OFF2

```
MAILSCMDS
VO4-000
                                                            VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                                                                                                                                                                                                                                                 16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                                                                                                                                                                                                                                                                                                                                           VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]CMDS.B32;1
                                                            1458
1460
1461
1462
1463
1464
1466
1467
                                                                                          GLOBAL ROUTINE MAILSCMD_SEARCH =
     13398
13390
1334423445678
1334445478
13355545678
1336678
1337778
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
13388
1
                                                                                                 FUNCTIONAL DESCRIPTION:
                                                                                                                        This routine is the SEARCH command action routine and is called to
                                                                                                                        search for a message containing the specified string.
                                                                                                INPUTS:
                                                                                                OUTPUTS:
                                                            1469
                                                                                                                        A message containing the search string is displayed.
                                                                                         BEGIN
                                                                                         LOCAL
                                                                                                                       TEST_REC: BLOCK[8,BYTE], ! Test record descriptEST_REC_BUFF: BLOCK[MAIL$K_INBUFFSZ]; ! Test record buffer
                                                                                                                                                                                                                                                                                ! Test record descriptor
                                                         1478
1479
1480
                                                                                         MAILSCLR_DIR_FLAG();
                                                                                         ! Open file, select msgs if not
                                                                                         TEST_RECEDSC$A_POINTER] = TEST_REC_BUFF;
                                                                                                                                                                                                                                                                             ! Init descriptor
                                                                                               If a string is specified, use it and reset search to first message.
                                                          1486
1487
1488
1490
1491
1492
1493
1494
1497
1498
                                                                                         IF CLISGET_VALUE(SD_SEARCH1, COMMAND_DESC)
THEN BEGIN
                                                                                                     MAIL$STRIP_QUOTES(COMMAND_DESC,COMMAND_DESC);
MAIL$UPCASE(COMMAND_DESC); !Upcase in case quoted...DCL didn't
SEARCH_STRING[DSC$W_LENGTH] = MIN(.COMMAND_DESC[DSC$W_LENGTH],

CH$MOVE(.SEARCH_STRING[DSC$W_LENGTH],.COMMAND_DESC[DSC$A_POINTER],

SEARCH_STRING_BUFF);

IF_ERR((IF_.MAIL$GL_FLAGS[MAIF_V_ISAM]

THEN MAIL$FIND_I_M$G(1,1) ! Start with first message
ELSE MAIL$FIND_M$G(1);

IF_.MAIL$GL_FLAGS[MAIF_V_ISAM]

THEN SIGNAL(.STATU$);

RETURN TRUE):
                                                          1500
1501
1502
1503
1504
1505
1506
1507
1508
                                                                                                                                                      RETURN TRUE):
                                                                                                        END
                                                                                        ELSE
                                                                                                                      IF_ERR((IF .MAIL$GL_FLAGS[MAIF_V_ISAM]
THEN MAIL$FIND_I MSG(0)
ELSE MAIL$FIND MSG(0));

IF .MAIL$GL_FLAGS[MAIF_V_ISAM]
THEN SIGNAL(.STATUS);
                                                   2222
                                                                                                                                                                                                                                                                              ! Else, start with next message
                                                                                                                                                     RETURN TRUE);
                                                           1510
1511
1512
                                                                                                 Search through the messages starting with the current.
                                                                                         IF .MAILSGL_FLAGS[MAIF_V_ISAM] THEN BEGIN
     1394
                                                                                                         LOCAL
```

M/V

```
16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
MAILSCMDS
VO4-000
                                                                                                                                                          VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRCJCMDS.832;1
                            VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                            RECDESC : $BBLOCK[DSC$C_S_BLN],
   1395
1396
1397
1398
1399
1400
1401
1405
1405
1406
1407
                                                        MOREFLAG:
                                                 DO BEGIN
                                                        MAILSREWIND I MSG();
WHILE MAILSGET I MSG(RECDESC, MOREFLAG)
                                                        DO BEGIN
                                                               TEST_RECEDSCSW_LENGTH] = MIN(.RECDESCEDSCSW_LENGTH], MAIL$K_INBUFFSZ);
CH$MOVE(.TEST_RECEDSCSW_LENGTH], .RECDESCEDSCSA_POINTER],
TEST_REC_BUFF);
UPCASE(TEST_REC);
                                                               IF NOT CHSFAIL (CHSFIND_SUB(.TEST_RECEDSCSW_LENGTH],
.TEST_RECEDSCSA_POINTER],
.SEARCH_STRINGEDSCSW_LENGTH],
.SEARCH_STRINGEDSCSA_POINTER]))
   THEN BEGIN
                                                                      MAIL$REWIND I MSG();
READ MESSAGE(0);
RETURN TRUE;
                                                                      END:
                                                               END:
                                                             .MAILSGL_FLAGS[MAIF_V_CTRLCFL] THEN EXITLOOP;
                                                        END
                                                        UNTIL NOT MAIL$FIND_I_MSG(0);
                                         ELSE BEGIN
                                                 DO BEGIN
                                                        IF .MAIL$GL_FLAGS[MAIF_V_CTRLCFL] THEN EXITLOOP;
TEST_REC[DSC$W_LENGTH] = MIN(.MAIL$W_MSG_RSIZ,MAIL$K_INBUFFSZ);
CH$MOVE(.TEST_REC[DSC$W_LENGTH],.MAIL$L_MSG_RADR,TEST_REC_BUFF);
UPCASE(TEST_REC);
                                                        IF NOT CHSFAIL (CHSFIND_SUB(.TEST_RECEDSCSW_LENGTH],
.TEST_RECEDSCSA_POINTER],
.SEARCH_STRINGEDSCSW_LENGTH],
.SEARCH_STRINGEDSCSA_POINTER]))
                                                        THEN BEGIN
                                                               MAILSREWIND_MSG();
                                                               MAILSREAD();
                                                               RETURN TRUE:
                                                               END:
                                          UNTIL NOT MAILSGET MSG()
UNTIL NOT MAILSFIND MSG(0);
                                          SIGNAL (MAILS_NOTFOUND, 1, SEARCH_STRING);
                                          RETURN TRUE:
                                          END:
   1444
```

(26)

V

Page

	50	00000000	00		4-5ep-	1984 00:47 1984 12:42		Page 64 (26)
C1	5849876E8801	00000000G 00000000G 00000000G F 382 00000000G 00000000	000 000 000 000 000 000 000	9E 00002 9E 00010 9E 00017 9E 00012 9E 00023 9E 0002A FB 00032 FB 00032 E8 00036		MOVAB MOVAB MOVAB MOVAB MOVAB CALLS CALLS BLBS RET	MAIL\$FIND_MSG, R11 MAIL\$FIND_I_MSG, R10 MAIL\$UPCASE, R9 MAIL\$CLR_DIR_FLAG, R8 MAIL\$GL_FLAGS, R7 COMMAND_DESC, R6 -2068(SP), SP WO, MAIL\$CLR_DIR_FLAG WO, SELECT_DEFAULT STATUS, 1\$	1478
FC	AD	oc		AL ANATO	15:	RET	TEST_REC_BUFF, TEST_REC+4	14.93
000000000		F141	AE 56 CF 02 56	9E 0003A DD 0003F 9F 00041 FB 00045 E9 0004C DD 00051 FB 00053		PUSHL PUSHAB CALLS BLBC PUSHL CALLS PUSHL CALLS MOVZWL CMPW BLEQU MOVZBL MOVW	RÓ SD_SEARCH1 #2, CLI\$GET_VALUE RO, 4\$ RÓ	1483
00000000	00		56	DD 00051		PUSHL	R6	1489
00000000			56	1112 1211113M		PUSHL	NZ, MAIL\$STRIP_QUOTES R6 N1, MAIL\$UPCASE	1490
0080	69 50 8F		66 50 04	FB 0005C 3C 0005F B1 00062 1B 00067 9A 00069		MOVZWL CMPW	COMMAND DESC, RO RO, #128	1491
FF40 C6	50 A6 50 60 09	80 04 08	8F 50 A6	80 0006b	25:	MOVZBL MOVW MOVL	RO, SEARCH_STRING COMMAND_DESC+4, RO	1493
	09 6A		A6 67 01 01 02	DD 0007F DD 00081 FB 00083		MOVE MOVC3 BLBC PUSHL PUSHL CALLS	SEARCH_STRING, (RO), SEARCH_STRING_BUFF MAIL\$GE_FLAGS, 3\$ #1 #1 #2, MAIL\$FIND_I_MSG	1500
			13 01 00	11 00086 DD 00088		BRB PUSHL	7\$ #1 6\$	
	0.7		0C 67 7E	E9 0008C	48:	BRB BLBC CLRL CALLS	MAIL\$GL_FLAGS, 5\$ -(SP)	1508
	6A		01 05	E9 0008C D4 0008F FB 00091 11 00094	50.	CALLS BRB	#1, MAILSFIND_I_MSG	
	6B 0E 6B		01 50 67 50	11 0008A E9 0008C D4 00091 11 00094 D4 00096 FB 00098 E8 0009B E9 000A3 11 000AA E9 000AC FB 000B6 9F 000B8 FB 000B8 FB 000C5 B1 000C9 1B 000C9 1B 000C9	6 \$:	BRB CLRL CALLS BLBS BLBC PUSHL CALLS	-(SP) #1, MAIL\$FIND_MSG STATUS, 8\$ MAIL\$GL_FLAGS, 13\$ STATUS #1, LIB\$SIGNAL 13\$	
000000006	00		01	FB 000A3		CALLS	#1, LIB\$SIGNAL	
000000006	6D 00		60 67 00 5E AE 02 50	E9 000AC FB 000AF DD 000B6	8\$: 9\$: 10\$:	CALLS	#0, MAIESREWIND_I_MSG	1512 1519 1520
000000000	49	08	AE 02 50	9F 000B8 FB 000BB E9 000C2		PUSHAB CALLS BLBC	RECDESC #2, MAIL\$GET_I_MSG RO, 14\$ RECDESC, RO RO, #512	
0200	50 8F	04	AE 50	3C 000C5 B1 000C9		MOVZWL	RECDESC, RO RO, #512	1522
F8	50 AD	0200	AE 50 05 8F 50	3C 00000	116.	MOVZWL MOVW	11\$ #512, RO RO, TEST_REC	•

M/ V(

MAILSCMDS V04-000

MAILSCMDS VO4-000		VAX/VMS	PERSONAL	. MAIL	UTILITY	COMMAND	S		B 10 16-Sep-1 14-Sep-1	984 00:47 984 12:42	:25 VAX-11 Bliss-32 V4.0-742 :16 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;1	Page 65 (26)
		ОС	AE	08	8E	F8	AD AD	28 00 9F 00 FB 00		_		: 1523 : 1525
FC	BD	F8	AD		69 54 50 60	08 0C	AD 01 A6 54	3C 00 00 39 00	0009 00E0 00E3 00E6 00EA 00F5 00F7	MOVC3 PUSHAB CALLS MOVZWL MOVL MATCHC BEQL MOVL SUBL2 BEQL CALLS CLRL CALLS	TEST_REC, @RECDESC+4, TEST_REC_BUFF TEST_REC #1, MAIL\$UPCASE SEARCH_STRING, R4 SEARCH_STRING+4, R0 R4, (R0), TEST_REC, @TEST_REC+4 12\$ R4, R3 R4, R3	1528 1529
					53 53		03 54 54 B7			MOVL SUBL2	R4. R3 R4. R3 10\$	
			0000	0000G 85	00 8A		00 7E 01	FB 00 D4 00 FB 00	0FF 106	CALLS	#O. MAIL\$REWIND_I_MSG -(SP) #1, READ_MESSAGE	1531 1532
					73	01	63 A7 7E	11 00 E8 00 D4 00	00FF 106 108 10C 13\$: 10E 14\$:	BRB BLBS CLRL CALLS BLBC BRB BLBS MOVZWL	18\$ MAIL\$GL_FLAGS+1, 21\$ -(SP)	1533 1536 1538
					6A		01 50	E9 00	114 117 11A	CALLS BLBC BRB	#1, MAIL\$FIND_I_MSG RO, 21\$. 1330
				0200	50 50 000 8F	01 000000G	A7 00 50	EE AA	1116 156.	BLBS MOVZWL CMPW BLEQU	MAIL\$GL FLAGS+1, 20\$ MAIL\$W_MSG_RSIZ, RO RO, #5T2	1543 1544
		0.0	4.5	F8	50 AD 50 000	0200 00000G	05 8F 50 00 AD AD	1B 00 3C 00 B0 00 D0 00	120 127 112C 112E 1133 16\$:	MOVY MOVA MOVL	MAIL SGL FLAGS+1, 20\$ MAIL SW MSG_RSIZ, RO RO, MST2 16\$ W512, RO RO, TEST_REC MAIL SL MSG_RADR, RO TEST_REC, (RO), TEST_REC_BUFF TEST_REC W1, MAIL SUPCASE SEARCH_STRING, R4 SEARCH_STRING+4, RO R4, (RO), TEST_REC, DTEST_REC+4 17\$ R4, R3	1545
		00	AE		60 69	FB FB	AD O1	28 00 9F 00 FB 00	113E 1144 1147	PUSHAB CALLS	TEST_REC, (RO), TEST_REC_BUFF TEST_REC #1. MAIL\$UPCASE	1546
FC	BD	F8	AD		69 54 50 60				114A 114E 1152 1159 115B 115E 17\$:	MOVW MOVL MOVC3 PUSHAB CALLS MOVZWL MOVL MATCHC BEQL	SEARCH_STRING, R4 SEARCH_STRING+4, R0 R4, (R0), TEST_REC, @TEST_REC+4	1549 1550
					53 53		54	DO 00	158 15E 17\$:	SUBL 2	R4. R3 R4. R3 19\$	
			0000	0000G	00		00	FB 00	16A	BEQL CALLS CALLS	WO. MAILSREWIND_MSG WO. MAILSREAD 22\$	1552 1553 1554 1557
			0000)0000G	00 9F		50	FB 00	173 19\$:	BRB CALLS BLBS	WO, MAIL\$GET_MSG RO, 15\$:
					68 97		7E 01 50	FB 00	17 F	CLRL CALLS BLBS	-(\$P) #1, MAIL\$FIND_MSG RO, 15\$	1558
						08	A6 01 8F	DD 00	182 185 21\$: 188 18A	BLBS PUSHAB PUSHL	SEARCH_STRING #1 #8290418	1561
			0000	0000G	00 50	2007	03 01	FB 00	190 197 22\$:	PUSHL CALLS MOVL RET	#3, LIB\$SIGNAL #1, RO	1563 1564

; Routine Size: 411 bytes, Routine Base: \$CODE\$ + 106E

```
10
MAILSCMDS
                                                                                                          16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
                          VAX/VMS PERSONAL MAIL UTILITY COMMANDS
V04-000
  1446
1447
1448
1449
1450
1452
1453
1456
1457
1458
                          GLOBAL ROUTINE MAILSCMD_CURRENT =
                                           FUNCTIONAL DESCRIPTION:
                                                     Redisplay the current message
                                       BEGIN
                                       LOCAL
                                              EDIT_FLAG;
                                       MAIL$CLR_DIR_FLAG();
EDIT_FLAG = TLISPRESENT(SD_EDIT);
IF _MAIL$GL_FLAGS[MAIF_V_ISAM]
   1460
                                       THEN BEGIN
                                             IF NOT .MAILSGL FLAGS[MAIF_V_FILOPN]
OR .MAILSL MSG_NUM EQL O
THEN RETURN SIGNAL (MAILS NOTREADIN);
MAILSFIND I MSG(.MAILSL_MSG_NUM);
IF NOT .MAILSL MSG_STS
THEN RETURN SIGNAL(.MAILSL_MSG_STS);
MAILSDELIND I MSG().
   1462
1463
   1464
   1465
   1466
   1467
                                              MAILSREWIND_I_MSG():
   1468
                                              END
   1469
                                       ELSE BEGIN
   1470
                                              IF NOT MAILSREWIND_MSG()
   1471
                                                     THEN RETURN SIGNAL (MAILS_NOTREADIN);
  1472
1473
                                       READ_MESSAGE(.EDIT_FLAG);
   1474
   1475
                          1594
                                       RETURN TRUE
                          1595
  1476
                                       END:
```

```
001C 00000
9E 00002
9E 00009
                                                                                                  MAIL$CMD_CURRENT, Save R2,R3,R4
MAIL$L MSG_NUM, R4
MAIL$CER_DIR_FLAG, R3
                                                                                     .ENTRY
                                                                                                                                                                                  1565
                             00000000G
                        54
53
63
                                                00
CF
                                                                                     MOVAB
                                    F1F5
                                                                                     MOVAB
                                                            0000E
00011
00015
0001C
0001F
00026
                                                      FB
9F
                                                 00
                                                                                     CALLS
                                                                                                  #O, MAILSCLR_DIR_FLAG
                                                                                                                                                                                  1576
1577
                                                                                                  SD_EDIT
#1. CLISPRESENT
                                    EF8A
                                                                                     PUSHAB
                       00
52
20
00
     00000000G
                                                       FB
                                                                                     CALLS
                                                                                                  RO, EDIT FLAG
MAILSGL FLAGS, 28
#3, MAILSGL FLAGS+1, 38
MAILSL_MSG_NUM
                                                       D0
E9
                                                                                     MOVL
                                                                                                                                                                                 1578
1580
1581
                             0000000G
                                                                                    BLBC
2E 00000000G
                                                                                    BBC
                                                            0002E
00030
                                                                                    BEQL
                                                            00032
00034
00038
00042
                                                                                                  MAIL$L MSG NUM
#1, MAIL$FIND I MSG
MAIL$L MSG STS, RO
RO, 1$
                                                       DD
                                                                                    PUSHL
                                                                                                                                                                                  1583
                        00
50
04
                                                       FB
DO
     0000000G
                                                                                    CALLS
                                                00
50
50
                             0000000G
                                                                                                                                                                                  1584
                                                                                     MOVL
                                                                                    BLBS
                                                                                                  RO,
                                                                                    PUSHL
                                                                                                                                                                                  1585
                                                 19
                                                                                    BRB
                                                            00049 1$:
00050
00052 2$:
                                                                                                                                                                                 1586
1578
1589
     0000000G
                                                                                     CALLS
                                                                                                         MAIL$REWIND_I_MSG
                                                                                    BRB
                        00
0E
     0000000G
                                                                                    CALLS
                                                                                                        MAIL$REWIND_MSG
                                                            00059
                                                                                    BLBS
```

VAX-11 Bliss-32 V4.0-742

DISK\$VMSMASTER: [MAIL.SRC]CMDS.B32:1

*1

e 66 (27)

MAILSCMDS V04-000	VAX/VMS PER	PERSONAL MAIL UTILITY COMMANDS				16-S 14-S	o ep-1984 00:4 ep-1984 12:4	7:25 2:16	VAX-11 BLiss-32 V4.0-742 DISK\$VMSMASTER: [MAIL.SRC	JCMDS.B32;1 Page (27)
		000000006	00 007E	8022 8F 01	DD FB 04	0005C 39 00062 49 00069 0006A 59	PUSHL CALLS	#8290 #1, L	338 IB\$SIGNAL	1590
		85	A3 50	52 01 01	PB 00 04	0006C 00070 00073	PUSHL CALLS RET PUSHL CALLS MOVL RET	#1, R	FLAG EAD_MESSAGE	1592 1592 1593

```
E 10
16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
MAILSCMDS
VO4-000
                       VAX/VMS PERSONAL MAIL UTILITY COMMANDS
GLOBAL ROUTINE MAILSCMD_FIRST = !++
                                    FUNCTIONAL DESCRIPTION:
                                             Retype the first message in the folder
                                  1--
                                 BEGIN
                                 LOCAL
                                       EDIT_FLAG;
                                 MAILSCLR DIR FLAG():

IF_ERR(SELECT_DEFAULT():

RETURN .STATUS):
                                 EDIT_FLAG = CLISPRESENT(SD_EDIT);
IF .MAILSGL_FLAGS[MAIF_V_ISAM]
THEN BEGIN
                                       MAILSFIND I MSG(1);
IF NOT .MAILSL MSG STS
THEN RETURN SIGNAL (.MAILSL_MSG_STS);
                                       MAILSREWIND_I_MSG();
                                        END
                                 ELSE IF ERR (MAILSFIND MSG(1);,
RETURN TRUE);
                                 READ_MESSAGE (.EDIT_FLAG);
                                  RETURN TRUE
                                 END:
```

	53 F188	000C 00000 CF 9E 00002	.ENTRY MAIL\$CMD_FIRST, MOVAB MAIL\$CLR_DIR_FLA CALLS NO, MAIL\$CLR_DIF CALLS NO, SELECT_DEFAL BLBC STATUS, 5\$	Save R2,R3 : 1596
C1	53 F188 63 A3 50	00 FB 00007 00 FB 0000A 50 E9 0000E	CALLS NO, MAILSCLR DIF CALLS NO, SELECT DEFAU BLBC STATUS, 58	R FLAG DET 1609
0000000G	00 EF16	CF 9F 00011 01 FB 00015	CALLS #1. CLISPRESENT	1611
	26 00000000G	50 DO 0001C 00 E9 0001F 01 DD 00026	MOVL RO, EDIT FLAG BLBC MAILSGL_FLAGS, 2 PUSHL #1	?\$ 1612 1614
000000006	00 50 00000000G	01 FB 00028 00 D0 0002F 50 E8 00036	CALLS #1, MAIL\$FIND I MOVL MAIL\$L_MSG_STS, BLBS RO, 1\$	MSG RO 1615
00000000G	00	50 DD 00039 01 FB 0003B 04 00042	PUSHL RO CALLS #1, LIB\$SIGNAL RET	1616
0000000G	00	00 FB 00043 1\$: 0C 11 0004A	CALLS MO, MAIL REWIND	: 1612
0000000G	00 06	01 DD 0004C 2\$: 01 FB 0004E 50 E9 00055 52 DD 00058 3\$:	PUSHL #1 CALLS #1 MAIL\$FIND_MS BLBC STATUS. 48	1620
85	A3	52 DD 00058 38: 01 FB 0005A	PUSHL EDIT FLAG CALLS W1, READ_MESSAGE	1621
	A3 50	01 DO 0005E 48:	MOVL #1, RO	: 1622

M/V

VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;1

VAX/VMS PERSONAL MAIL UTILITY COMMANDS

F 10 16-Sep-1984 00:47:25 VAX-11 Bliss-32 V4.0-742 Page 69 14-Sep-1984 12:42:16 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;1 (28)

04 00061 58: RET

: 1623

; Routine Size: 98 bytes. Routine Base: \$CODE\$ + 127D

```
G 10
16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
MAILSCMDS
VO4-000
                               VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                                              GLOBAL ROUTINE MAILSCMD_LAST =
1507
1508
1509
1510
1511
1513
1514
1515
1516
1516
1517
1518
1518
1522
1523
1524
1523
1524
1533
1533
1533
1533
1533
                              162278901233456788901231662278901233456333890123456447890123
                                                  FUNCTIONAL DESCRIPTION:
                                                              Type the last message in the folder
                                              1--
                                              BEGIN
                                              LOCAL
                                                      EDIT_FLAG;
                                              MAILSCLR_DIR_FLAG();
IF_ERR(SELECT_DEFAULT();
RETURN .STATUS);
                                              EDIT_FLAG = CLISPRESENT(SD_EDIT);
IF .MAIL$GL_FLAGS[MAIF_V_ISAM]
                                              THEN BEGIN
                                                      IF .MAIL$L NMSG EQL 0
THEN RETURN SIGNAL (MAIL$ NOMSGS);
MAIL$FIND_I MSG(.MAIL$L_NMSG);
IF NOT .MAIL$L MSG_STS
THEN RETURN SIGNAL(.MAIL$L_MSG_STS);
                                                       MAILSREWIND I_MSG();
                                                       END
                                              ELSE IF_ERR(MAIL$FIND_MSG(XX'7FFFFFFF');,
RETURN TRUE);
                                              READ_MESSAGE (.EDIT_FLAG);
                                              RETURN TRUE
                                              END:
```

C1	54 000000006 53 F11F 63 A3 60 EEAD	001C 00000 00 9E 00002 CF 9E 00009 00 FB 0000E 00 FB 00011 50 E9 00015 CF 9F 00018	.ENTRY MAIL\$CMD LAST, Save R2,R3,R4 MOVAB MAIL\$L NMSG, R4 MOVAB MAIL\$CER DIR FLAG, R3 CALLS #0, MAIL\$CLR DIR FLAG CALLS #0, SELECT DEFAUET BLBC STATUS, 7\$ PUSHAB SD_EDIT	1624 1635 1637
0000000G	00	01 FB 0001C 50 D0 00023	CALLS #17 CLISPRESENT	
	32 000000006	00 E9 00026 64 D5 0002D	MOVL RO, EDIT FLAG BLBC MAILSGL FLAGS, 48 TSTL MAILSL RMSG BNEQ 18	1640 1642
	007E804A	08 12 0002F 8F DD 00031 15 11 00037	PUSHL #8290378 BRB 2\$	1643
00000000	00	64 DD 00039 1\$:	PUSHL MAILSL NMSG	1644
0000000G	00 50 000000000	01 FB 0003B 00 D0 00042 50 E8 00049	CALLS #1, MATLSFIND I MSG MOVL MAILSL MSG_STS, RO BLBS RO, 3\$	1645
	UA	50 DD 0004C	PUSHL RO	1646
00000000G	00	01 FB 0004E 25:	CALLS #1, LIB\$SIGNAL	
0000000G	00	00 FB 00056 38:	RET CALLS #0, MAILSREWIND_I_MSG	: 1647

VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;1

MAILSCMDS VO4-000	VAX/VMS PE	UTILITY COMMAN	.ITY COMMANDS		H 10 16-Sep- 14-Sep-	1884 99:43	7:25 2:16 D	VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER: [MAIL.SRC]CMDS.B32;1		
		00000000G 85	7FFFFFF 00 06 A3 50	10 861 550 01	11 00 DD 00 FB 00 DD 00 FB 00 00 04 00	05D 05F 4\$: 065 06C 06F 5\$: 071 075 6\$:	BRB PUSHL CALLS BLBC PUSHL CALLS MOVL RET		3647 L\$FIND_MSG 6\$ AG D_MESSAGE	1640 1650 1651 1652 1653
; Routine Siz	e: 121 bytes	. Routine	Base: \$CODE\$	+ 1	2DF					

```
I 10
16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
MAILSCMDS
V04-000
                                 VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                                                                                                                                                                                          VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]CMDS.B32;1
                                  1654
1655
1656
1657
1658
1659
  GLOBAL ROUTINE MAILSCMD_SPAWN =
                                                      FUNCTIONAL DESCRIPTION:
                                                                   Spawn a subprocess
                                 1660
1661
1662
1663
1664
1665
1666
1667
1676
1673
1675
1676
1677
1678
                                                  BEGIN
                                                  OWN
                                                          PROC DESC : DYN DESC DECL.
INP DESC : DYN DESC DECL.
OUT DESC : DYN DESC DECL;
                                                  LOCAL
                                                          SUBPROCPID,
PURGE_VEC : VECTOR[2,LONG],
SPAWN_FLAGS;
                                                  IF .MAILSGL_FLAGS[MAIF_V_CAPTIVE] THEN RETURN SIGNAL(MAILS_CAPTIVE);
                                                 SPAWN_FLAGS = 0;
CLISGET_VALUE(SD_PROCESS,PROC_DESC);
CLISGET_VALUE(SD_INPUT,INP_DESC);
CLISGET_VALUE(SD_OUTPUT,OUT_DESC);
CLISGET_VALUE(SD_P1,COMMAND_DESC);
                                 1680
1681
1682
1683
1684
                                                  IF NOT CLISPRESENT(SD_WAIT)
THEN SPAWN_FLAGS = .SPAWN_FLAGS OR 1;
                                 1685
                                                  IF NOT CLISPRESENT(SD_SYMBOLS)
THEN SPAWN_FLAGS = .SPAWN_FLAGS OR 2;
                                 1686
1687
                                  1688
                                                  IF NOT CLISPRESENT(SD_LOGICAL_NAMES)
THEN SPAWN_FLAGS = .SPAWN_FLAGS OR 4;
                                 1689
                                 1690
1691
1692
1693
1694
1695
                                                  MAIL SDISABLE CTRLC();
IF (.SPAWN_FEAGS AND 1) EQL 0
THEN BEGIN
                                                                                                                                       !ONLY IF SPAUN/WAIT
                                                          PURGE_VEC[0] = 0;
PURGE_VEC[1] = %x'7fffffff;
$PURGDS(INADR=PURGE_VEC);
                                 1696
1697
                                                 IF_ERR(LIB$SPAWN(COMMAND_DESC,INP_DESC,OUT_DESC,
SPAWN_FLAGS,PROC_DESC,SUBPROCPID);,

(MAP STATUS: $BBLOCK;
STATUS[STS$V_SEVERITY] = STS$K_ERROR;
MAIL$ENABLE_CTRLC();
RETURN SIGNAL(.STATUS)));
                                 1698
1699
1700
1701
1702
1703
                                 1704
1705
1706
1707
1708
                                                  MAILSENABLE CTRLC():
IF (.SPAWN_FLAGS AND 1) EQL 0
                                                                                                                                       !SPAWN /WAIT
                                                           THEN MAILSCMD_SHOW_NEW();
                                 1709
                                                  RETURN TRUE
                                                  END:
```

(30)

							.PSECT	SOWNS, NOEXE, 2		
			02	0E 00# 0E	000D2 000D4 000D8	INP_DESC	BYTE BYTE BYTE BYTE BLKB	0[2] 14. 2 0[2] 14. 2	•	
			02	30	000E2 000E4		.BYTE .BYTE .BLKB	14. 2	•	
							.EXTRN	SYS\$PURGWS		
							.PSECT	\$CODE\$,NOWRT,2		
	57 56 55 54 53 5E 00	000000000 EDC5 000000000 0000000000	00 00 00 CF 00	9E	00000 00002 00009 00010 00017 0001C 00023		ENTRY MOVAB MOVAB MOVAB MOVAB MOVAB SUBL2	MAIL\$CMD SPAWN, Save R2,R3,R4,R5,R6,R7 MAIL\$ENABLE_CTRLC, R7 CLI\$PRESENT, R6 CLI\$GET_VALUE, R5 SD_PROCESS, R4 PROC_DESC, R3 #16, SP		1654
09 00000000G	00	007E812A	06 8F	E1 DD	00026 0002E		BBC PUSHL	#6. MAIL\$GL_FLAGS+1, 1\$ #8290602		1673 1674
		04	0095 AE 53	31 04 00	00034	1\$:	BRW CLRL PUSHL PUSHL	6\$ SPAWN_FLAGS R3 R4		1676 1677
	65	08 FF2C	54 02 A3 C4 02	FB 9F 9F	0003E 00041 00044		PUSHAB PUSHAB	#2, CLISGET_VALUE INP_DESC SD_INPUT		1678
	65	10	A3	FB 9F	00048 0004B		CALLS PUSHAB	W2. CLISGET_VALUE OUT_DESC SD_OUTPUT		1679
	65	FO DO	A4 02 A3 02 C4	9F FB 9F 9F FB	0004E 00051 00054 00057 0005A		PUSHAB CALLS PUSHAB PUSHAB	#2. CLISGET_VALUE COMMAND_DESC SD_P1 #2. CLISGET_VALUE		1680
	65	0134	02	FB 9F	0005A		PUSHAB	#2. CLISGET_VALUE SD_WAIT		1682
04	66 04 AE	44	01 50 01 A4	FB E8 88 9F	0005D 00061 00064 00067 0006B	28.	CALLS PUSHAB CALLS BLBS BISB2 PUSHAB	SD_WAIT #1, CLISPRESENT R0, 2\$ #1, SPAWN FLAGS SD_SYMBOLS #1, CLISPRESENT		1683 1685
	66	44	01	FB	0006E 00071 00074	6.0.	CALLS BLBS BISB2	#1. CLISPRESENT	•	100)
04	AE	A4	01 50 02 A4 01 50	FB 88 9F FB	00074	38:	PUSHAB	#2, SPAWN FLAGS SD LOGICAL NAMES		1686 1688
04	66 04 AE		01 50 04	F B E 8 88	0007B 0007E 00081		CALLS BLBS BISB2	RO. 35 #2. SPAWN FLAGS SD_LOGICAE NAMES #1. CLISPRESENT RO. 45 #4. SPAWN_FLAGS		1689

MAIL\$CMDS V04-000	VAX/VMS	PERSONAL MAIL	UTILITY COM	MANDS		K 10 16-Se 14-Se	p-1984 00:47 p-1984 12:42	:25 VAX-11 Bliss-32 V4.0-742 :16 DISKSVMSMASTER:[MAIL.SRC]CMDS.B32;1	Page 74 (30)
		0000000G		00 AE	FB E8	00085 48: 00080	CALLS	#0, MAIL\$DISABLE_CTRLC SPAWN_FLAGS, 5\$: 1691
		00	AE 7FFFFFFF	8F	E8 04 00	00085 48: 0008C 00090 00093 0009B 0009E	CALLS BLBS CLRL MOVL PUSHAB	#0, MAIL\$DISABLE_CTRLC SPAWN_FLAGS, 5\$ PURGE_VEC #2147483647, PURGE_VEC+4	; 1691 ; 1692 ; 1694 ; 1695 ; 1696
		000000006	00 4008 00 10 08	8F	FR	0009E 000A5 000A9 000AC 000AF 000B2 000B5 000BC	CALLS PUSHR PUSHAB PUSHAB PUSHAB PUSHAB	PURGE VEC #1 SYSSPURGWS # M <r3,sp> SPAWN FLAGS OUT DESC INP DESC COMMAND DESC #6, LIBSSPAWN R0, STATUS</r3,sp>	1703
		0000000G	00 52) A3 06 50	9F FB	000B2 000B5 000BC	PUSHAB CALLS MOVI	COMMAND DESC #6, LIBSSPAWN RO. STATUS	
52		03	12 00 67	52 02 00 52 01	E8 FO FB DD	000BF 000C2 000C7 000CA	CALLS MOVL BLBS INSV CALLS PUSHL	RO, STATUS STATUS, 7\$ #2, #0, #3, STATUS #0, MAIL\$ENABLE_CTRLC STATUS	0 0 0
		0000000G			FB 04	000CC 65:	RET	#1, LIB\$SIGNAL	
		0000000G	67 07 00 50	00 AE 00 01	FB FB DO 04	00004 7\$: 00007 0000B 000E2 8\$:	CALLS BLBS CALLS MOVL RET	#0. MAILSENABLE_CTRLC SPAWN_FLAGS, 8\$ #0. MAILSCMD_SHOW_NEW #1, R0	1705 1706 1707 1709 1710

; Routine Size: 230 bytes, Routine Base: \$CODE\$ + 1358

```
16-Sep-1984 00:47:25
14-Sep-1984 12:42:16
MASLSCMDS
VO4-000
                      VAX/VMS PERSONAL MAIL UTILITY COMMANDS
                                                                                                                            VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]CMDS.B32;1
  GLOBAL ROUTINE MAILSCMD_ATTACH =
                                    FUNCTIONAL DESCRIPTION:
                                             Attach to a subprocess
                     BEGIN
                                 LOCAL
                                       STATUS,
SUBPROCPID : VOLATILE,
PURGE VEC : VECTOR[2,LONG],
PARENT_FLAG,
                                       ITMLST : $ITMLST_DECL(ITEMS=1);
                                 CLI$GET_VALUE(SD_P1,COMMAND_DESC);
                                 PARENT_FLAG = CLISPRESENT(SD_PARENT);
                                 IF .PARENT_FLAG
                                       SITMLST_INIT(ITMLST=ITMLST.
                                             (ITMCOD=JPI$_OWNER, BUFADR=SUBPROCPID));
                                       STATUS = $GETJPIW(ITMLST=ITMLST);
IF NOT .STATUS
                                            OR (.SUBPROCPID EQL 0)
THEN RETURN SIGNAL (MAILS_NOPARENT);
                                       END
                                 ELSE BEGIN
                                       $ITMLST_INIT(ITMLST=ITMLST.
                                             (ITMCOD=JPIS_PID, BUFADR=SUBPROCPID));
                   P
                                       IF_ERR($GETJPIW(PRCNAM=COMMAND_DESC,ITMLST=ITMLST);,
                                             RETURN SIGNAL (.STATUS)):
                                       END:
                                      .SUBPROCPID EQL 0
                                       THEN RETURN SIGNAL ((SS$_NONEXPR AND NOT STS$M_SEVERITY) OR STS$K_WARNING);
                                 MAIL$DISABLE_CTRLC();
PURGE_VEC[0] = 0;
PURGE_VEC[1] = IX'7FFFFFFFF';
$PURGDS(INADR=PURGE_VE();
If_ERR(LIB$ATTACH(SUBPROCPID);,

(MAP_STATUS : $BBLOCK;

STATUS[STS$V_SEVERITY] = STS$K_ERROR;
MAIL$ENABLE_CTRLC();
PETURN_SIGNAL(STATUS));
                   9999
                                                  RETURN SIGNAL (.STATUS)));
                                 MAILSENABLE_CTRLC();
MAILSCMD_SHOW_NEW();
                                 RETURN TRUE
                                 END:
```

.1	EXT	RN	SY	S\$G	ET	JP.	IW

							.EXTRN	SYSSGETJPIW	
		55 54 55 5E	000000006 000000006 000000000	0030 000 000 000 000 000 000 000 000 00	00000 00002 00009 00010		ENTRY MOVAB MOVAB SUBLZ PUSHL PUSHAB CALLS PUSHAB	MAIL\$CMD_ATTACH, Save R2,R3,R4,R5 COMMAND_DESC, R5 MAIL\$ENABLE_CTRLC, R4 SYS\$GETJPIW, R3 #28, SP R5	1711
	00000000		ECAA	CF 9F	0001A		PUSHL	SD_P1 #2. CLI\$GET_VALUE	1727
	00000000G	00	ECAF	CF 9F	00020		PUSHAB	SD_PARENT	1729
	0000000G	00 2E 50		01 FB	0002B		CALLS BLBC MOVAB	PARENT_FLAG, 2\$	1731 1734
		80 80	03030004 18	01 FB 50 FB 6E PD 6E PD 70 70 7E PD 7E PD	0001A 0001C 00027 0002B 00032 00035 00035 00045 00047 0004C 0004C		MOVAB MOVAB CLRQ CLRQ CLRL PUSHAB	SD_PARENT #1, CLISPRESENT PARENT_FLAG, 2\$ ITMLST, \$\$ITMBLKPTR #50528260, (\$\$ITMBLKPTR)+ SUBPROCPID, (\$\$ITMBLKPTR)+ (\$\$ITMBLKPTR)+ -(\$P) -(\$P) ITMLST -(\$P)	1734
				7E 7C	00045		CLRQ	-(SP)	1736
			00	AE 9F	00049		PUSHAB	ITMLST	
		47		7E D4	0004E		CLRQ CLRL CALLS	-(SP)	
		63 05	18	7E D4 07 FB 50 E9 AE D5 2D 12	00053		BLBC	#7, SYS\$GETJPIW STATUS, 1\$ SUBPROCPID	1737 1738
			007EDF90	50 E9 AE D5 2D 12 8F D0 67 11	00059	S:	BLBC TSTL BNEQ PUSHL	3\$ #8314768	1739
		50	UUTEUT 90	67 11	00061		BRB	5\$:
		50 80 80	03190004 18	8F DD 67 11 6E 9E 8F DO AE 9E 80 7C 7E 7C	00063 00066 00060	\$:	MOVAR	ITMLST, \$\$ITMBLKPTR #51970052, (\$\$ITMBLKPTR)+ SUBPROCPID, (\$\$ITMBLKPTR)+ (\$\$ITMBLKPTR)+	1743
			OC	7E D4	00075		CLRQ CLRQ CLRL PUSHAB	-(SP) -(SP) ITMLST	1746
				55 DD 7E 7C	0007A		PUSHL CLRQ CALLS	R5 -(SP)	
		63			0007E 00081		BLBS	#7, SYS\$GETJPIW STATUS, 3\$	
				50 E8 50 DD 42 11 AE D5 07 12	00084 00086		PUSHL BRB	STATUS 5\$	
			18	AE D5	00088 3	s :	BRB TSTL BNEQ	SUBPROCPID	1749
		7E	08E8	8F 3C	00080		BNEQ MOVZWL BRB	#2280, -(SP)	1750
	0000000G	00	10	8F 3C 36 11 00 FB AE D4 8F D0 AE 9F 01 FB 01 FB	00094 4	\$:	CALLS	#O, MAILSDISABLE_CTRLC	1752 1753 1754 1755
	14	AE	7FFFFFFF 10	8F 00	0009E		CLRL MOVL PUSHAB	PURGE_VEC #2147483647. PURGE_VEC+4	1754
	0000000G	00		01 FB	000A9		CALLS	PURGE_VEC #1, SYS\$PURGWS	:
	0000000G	00	18	8F 3C FB DC	000B3		CALLS	SUBPROCPID #1, LIBSATTACH RO, STATUS STATUS, 6\$ #2, #0, #3, STATUS	1760
		00 52 12 00		50 DO 52 E8 02 F0	000BD		MOVL BLBS INSV	STATUS, 6\$	
03		00		02 F0	00000		INSV	#2, #0, #3, STATUS	:

MAILSCMDS VO4-000	VAX/VMS PERSONAL MAIL	UTILITY COMMANDS		N 10 16-Sep-1984 00:47:25 14-Sep-1984 12:42:16				:25	VAX-11 Bliss-32 V4.0-742 DISKSVMSMASTER: [MAIL.SRC]CMDS.B32;1	Page 77
	000000006	64	90 52	FB	000C5 000C8	s :	CALLS	NO.	MAIL\$ENABLE_CTRLC TUS LIB\$SIGNAL	•
	000000006	64	00 00 01	O4 FB	000D1	\$:	CALLS PUSHL CALLS RET CALLS CALLS MOVL RET		MAILSENABLE_CTRLC MAILSCMD_SHOW_NEW RO	1762
		50	Õĭ	04	000DC 000DF		MOVL	#1,	RO RO	1762 1763 1765 1766

; Routine Size: 224 bytes. Routine Base: \$CODE\$ + 143E

MAILSCMDS V04-000	VAX/VMS PERSONAL MAIL UTI	.ITY COMMANDS	B 11 16-Se 14-Se	p-1984 00:47:2 p-1984 12:42:1	VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32	VAX-11 Bliss-32 V4.0-742 Page 7 DISK\$VMSMASTER:[MAIL.SRC]CMDS.B32;1 (32		
; 1653 ; 1654	1767 1 END 1768 0 ELUDOM							
				.EXTRN L	.IB\$SIGNAL			
	PS	CT SUMMARY						
Name	Bytes		Attrib	utes				
SGLOBALS SOWNS SCODES	232 5406	NOVEC, WRT, NOVEC, WRT, NOVEC, NOWRT,	RD , NOEXE , NO RD , NOEXE , NO RD , EXE , NO	SHR, LCL, RE SHR, LCL, RE SHR, LCL, RE	L. CON, NOPIC, ALIGN(2) L. CON, NOPIC, ALIGN(2) L. CON, NOPIC, ALIGN(2)			
	Library S	atistics						
File			mbols		Processing Time			
_\$255\$DUA2	8:[SYSLIB]STARLET.L32;1 8:[MAIL.OBJ]MAILDEF.L32;1	9776 457	50 26	0 581 5 26	00:00.8 00:00.2			
	C	MMAND QUALIFIE	RS					
BLISS	/CHECK=(FIELD, INITIAL, OPTIMI	E)/LIS=LISS:C	MDS/OBJ=OBJ\$:C	MDS MSRC\$:CMDS	S/UPDATE=(ENH\$:CMDS)			
Size: Run Time: Elapsed Time: Lines/CPU M Lexemes/CPU Memory Used Compilation	in: 2222 -Min: 23343 : 250 pages							

MA

0228 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

